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PERSONALS.

Mr. Francis H. Freeman, contractor, of Bay City, Mich., died June 5, aged 48.

Mr. Joseph A. Latham has been elected Town Engineer of Cranston, R. I.

Mr. J. Bluford has been appointed Chief Electrician of the Chesapeake & Ohio Ry.

Mr. Harry Jose, of the firm of Dennett & Jose, civil engineers, of Saco, Me., died June 9, aged 31.

Mr. W. M. Lowe, Master Mechanic of the Pennsylvania Lines West of Pittsburg, at Toledo, O., died June 5.

Mr. H. F. Dowst is now the Division Superintendent of the lines east of Bangor of the Maine Central R. R.

Mr. Frank M. Ware has been appointed Superintendent of the Chesapeake & Ohio Ry. terminals in Cincinnati, O.

Mr. John M. Campbell, senior member of the firm of Campbell Bros., contractors, of Altoona, Pa., died June 15, aged 70.

Mr. A. M. Smith, Assistant Superintendent of the Duluth & Iron Range R. R., has resigned and the position has been abolished.

Mr. Seth Low, President of Columbia University, has resigned his position as a member of the Rapid Transit Commission of New York city.

Mr. G. M. La Noue, who was elected City Engineer of Houston, Tex., last April, for a term of two years, died June 2, after an illness of six months.

Mr. John Disay, Division Roadmaster of the Grand Trunk Ry., at Wiarton, Ont., has resigned, and Mr. Piper has been appointed to succeed him.

Mr. Joseph Frank, General Yardmaster of the Vandalia Line, at St. Louis, Mo., was killed by the tornado on May 27. He had been in the service of the road over 30 years.

Mr. Murray B. Augur, Trainmaster of the Elmira, Cortland & Northern Division of the Lehigh Valley R. R., has been transferred in the same capacity to the Buffalo Division.

Mr. W. B. Dunning, President of the New York Central Iron Works Co., of Geneva, N. Y., died June 12, aged 78. He was also the Manager of the Seneca Lake Steam Navigation Co.

Mr. H. F. Garrett, formerly Master Mechanic of the Richmond & Danville R. R., has been appointed to a similar position on the Southern Ry., with headquarters at Birmingham.

Mr. Noah W. Gray, Manager of the Ashland Iron & Steel Co., of Ashland, Wis., has resigned, and Mr. W. H. Hinkle, of Minneapolis, Secretary of the company, will succeed him.

Mr. C. Sullivan, Superintendent of Tracks, Bridges and Buildings, has been appointed Acting Superintendent of the Oregon Central & Eastern R. R., to succeed Mr. Charles Clark.

Mr. Louis A. Gueringer has been elected City Engineer of Houston, Tex. He has been Assistant City Engineer for some time and has appointed Mr. William Bradburn to succeed him in that position.

Mr. F. H. Alfred, Engineer of Maintenance of Way of the Cleveland, Akron & Columbus Ry., has been appointed Roadmaster with headquarters at Mt. Vernon, O., to succeed Mr. John Roach.

Mr. Frederick A. Bryan has been appointed Division Engineer of the Michigan Central R. R., with headquarters at Niles, Mich. On June 9 Mr. Bryan married Miss R. M. McVicker.

Mr. Henry R. Riggs, M. Am. Soc. C. E., Nasby Building, Toledo, O., has been appointed Chief Engineer and Superintendent of Construction of the Toledo, Bowling Green & Fremont Electric Ry.

Mr. T. L. Condron, Resident Engineer of the Pittsburg Testing Laboratory, at Chicago, was married on June 18. Mr. and Mrs. Condron will be at home after July 1, at 4760 Lake Ave., Chicago.

Mr. Harrison J. Smith, General Superintendent of the Edison Electric Light Co., of New York city, was seriously injured by a fall from a beam in his barn, at Washington Valley, N. J., on June 14.

Mr. W. L. Cosgrove, for 15 years with the Carnegie Steel Co., in their Building Division, is now the Engineer in Charge for the Columbian Fireproofing Co., of Pittsburg, Pa., with offices in New York city.

Mr. W. Dale Harris, Managing Director and Chief Engineer of the Ottawa & Gatineau Ry., with offices at Ottawa, Ont., has resigned, and Mr. W. Rosseman, General Superintendent, has been appointed to have charge of the duties.

Major A. L. Landis, who was interested in the building of the Nashville & Chattanooga R. R., and was a former Director and Superintendent of the Northwestern Division of that road, died at Nashville, Tenn., recently, aged 72.

Mr. G. W. Gloster, Engineer of Location of the Kansas City, Shreveport & Gulf R. R., has been appointed Assistant Chief Engineer of the Kansas City, Pittsburg & Gulf R. R., of which the Kansas City, Shreveport & Gulf R. R. is the Louisiana Division.

Mr. Nathaniel Roberts, M. Am. Soc. C. E., has opened an office as Consulting Engineer, at 31 Broadway, New York city, making a specialty of building construction and foundations. He has also opened a drawing office at 7 Oak St., Jersey City Heights, N. J.

Mr. Clarence F. Horton, of Peekskill, N. Y., who has been on the staff of the Rapid Transit Commission of New York city, has resigned and accepted an appointment as an Assistant Engineer on the U. S. Geological Survey and is stationed at present at Utica, N. Y.

Mr. Thomas M. Lynn, General Superintendent of the Geneva, Waterloo, Seneca Falls & Cayuga Lake Traction Co., which operates about 20 miles of electric road, has accepted the position of General Manager of the Irondequoit Park Ry. Co., to succeed Mr. C. L. West.

Mr. Zebulon E. Coffin, President of the Coffin Valve Co., died at Neponset, Mass., June 11, aged 79 years. He was born at Sydney, Me., and entered the contracting business in Boston while a young man. He was Superintendent of the old Boston Machine Co., and about 13 years ago organized the Coffin Valve Co., with works at Neponset, Mass.

Mr. Reeves Smith, of Troy, N. Y., has been transferred from the Rome section of the Erie Canal to the second section of the Oswego Canal, as Assistant Engineer, to succeed Mr. Henry C. Allen, Assoc. M. Am. Soc. C. E., whose resignation was announced in our issue of May 28. Mr. Smith has also the control of the preliminary survey for the construction of a system of sewerage in Fulton, N. Y.

Mr. Frederick P. Budden, Sr., President of the South Brooklyn Steam Engine Works, died at his home in Jersey City, N. J., June 13, being his seventieth birthday. He was born in Winbourne, England, and came to this country in 1830. He was appointed a Fire Commissioner of Jersey City, in 1867, and elected a Commissioner of the Board of Public Works, serving two years as its President.

Mr. Thomas S. Fernon, at one time a well-known railway man, died at Philadelphia, June 10, aged 78. He was a member of the Pennsylvania Legislature from 1845 to 1847 and in 1848 was elected to the State Senate. In 1852 he organized the North Pennsylvania R. R. and was its first President. Subsequently he was President of the Chester Valley R. R., and in 1857 founded "The United States Mining & Railroad Register."

Hon. D. A. Macdonald, formerly Lieutenant Governor of the Province of Ontario, Canada, died in Montreal, Quebec, June 10. He was born at St. Raphael's, Glengarry, about the year 1816, and in 1840 went to Chicago, Ill., and obtained the contract for a section of the Illinois Canal. In 1843 he was the contractor for the Beauharnois Canal, in Canada, and later for a section of the Grand Trunk Ry. He built the first aqueduct for the Montreal Water-Works, and in 1860 succeeded his brother in Parliament as representative for Glengarry. In 1875 he was made Postmaster General and appointed Lieutenant Governor of Ontario in 1875.

Maj. Enos Hopkins, who for many years was a prominent manufacturer, died in New York city, June 10. He was born at Naugatuck, Conn., March 28, 1821, and after completing his education engaged in the manufacture of buttons and in other enterprises in his native town. In 1858 he went to Jackson, Mich., and at the outbreak of the Civil War enlisted in the Michigan Engineer Corps, and was promoted to the rank of Major. After two years of military service he resigned and engaged in business in Nashville, Tenn., residing there for about ten years. For eight years he was the President of the Champion Iron Fence Co., of Kenton, O., retiring from business in 1880.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

ENGINEERS' CLUB OF MINNEAPOLIS.
July 20. Secy., E. Nexon, Kasota Block.
ENGINEERS' CLUB OF COLUMBUS, O.
June 20. Secy., M. S. Hopkins.
ENGINEERS' CLUB OF PHILADELPHIA.
June 20. Secy., L. F. Rondinella, 1122 Girard St.
AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 22. Saratoga Springs, N. Y. Secy., Angus Sinclair, New York city.
WISCONSIN POLYTECHNIC SOCIETY.
June 23. Secy., W. K. Means, Loan & Trust Bldg., Milwaukee.
INDIANAPOLIS ENGINEERING CLUB.
June 27. Secy., C. C. Brown.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
June 29. Annual meeting, at San Francisco, Cal. Secy., C. W. Hunt, 127 E. 23d St., New York.
TECHNICAL SOCIETY OF THE PACIFIC COAST.
July 3. Secy., O. H. Von Geldern, 819 Market St., San Francisco.

CIVIL ENGINEERS' CLUB OF CLEVELAND.—At the meeting on June 9, with the president, Mr. Howe, in the chair, Dr. C. O. Arey presented a paper on "Water Supply and Sewerage as Affected by the Lower Vegetable Organisms." F. A. Coburn, Secy.

INTERNATIONAL ASSOCIATION OF CAR ACCOUNTANTS.—The 21st annual meeting was held at Cleveland, O., June 9, with the president, Mr. J. Oborne (Canadian Pacific Ry.), in the chair. Among the papers presented were the following: "Distribution of Foreign Equipment," W. E. Beecham; "Light Weighting and Stenciling Freight Cars," T. S. Bell; "The Relation of Small Roads or Feeders to Trunk or Through Lines," C. O. Scranton.

TRADE PUBLICATIONS.

DRAWING AND SURVEYING INSTRUMENTS.—W. F. Stanley, London, England. Paper; 5½ × 8½ ins., pp. 68; illustrated.

This is an illustrated catalogue and price list of instruments, drawing materials and supplies, etc. The surveying instruments include transits, tachcometers, omnimeters and Lister's inclinometer for staking out slopes.

PAINT FOR METAL.—Griffiths Bros. & Co., London, England. Paper; 8⅝ × 11 ins.; pp. 10.

This pamphlet sets forth the advantages of "ferrodor," a natural metallic powder containing 95% of rustless peroxide of iron, which is used as a base for paint for metal work. It withstands acids and gases and may be added to red and white lead with advantage. It is supplied in the powdered state at $90 per ton.

BALDWIN-VAUCLAIN COMPOUND LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 79; profusely illustrated.

This is a most interesting and attractive publication, containing a description of the Vauclain four-cylinder system of compound locomotives, together with an explanation of its operation and notes on its maintenance. The piston slide valves and their bushings, the cylinder relief valves, cylinder castings, and other special parts are described and illustrated, and there are some interesting notes on combined indicator cards, by Mr. Geo. H. Barrus, together with notes on the results of tests made on numerous railways. The first Vauclain compound locomotive was built in 1889, and up to February 29, 1896, the number (including orders on hand) was 615. Besides illustrations of constructional details, there are no less than 95 fine half-tone engravings of individual engines, of which 39 are engines for foreign railways, the export trade of this company making a very good showing. The foreign countries thus represented include Russia, Japan, Australia, New Zealand, Brazil, Chile, Mexico and San Domingo, and the engines include almost every variety, from small rack-rail engines and suburban tank engines, to the ordinary passenger and freight engines and the great ten-wheel, consolidation and decapod engines for Russia and Australia. The American engines are of every type and for every class of service, and they represent railways in every part of the country. Besides ordinary railway engines there is shown a dummy or motor engine built on this system for the Wilmington street railway.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
June 18.	Cement curbing (6,000 lin.ft.), Peoria, Ill. Advertised, Engineering News, June 11.		June 11
June 18.	Asphalt paving, Peoria, Ill. Advertised, Engineering News, June 11.		June 11
June 18.	Macadamizing, St. Joseph, Mo.		June 11
June 18.	Water-works, Belmont, N. Y. Advertised, Engineering News, June 11.		June 11
June 18.	Steam heating, Washington, D. C.		June 4
June 18.	Police station, Cleveland, O.		May 28
June 18.	Ice breakers, Cincinnati, O.		May 28
June 18.	Hospital building, Marshalltown, Ia.		May 28
June 18.	Supplies for Watervleit Arsenal, N. Y.		May 21
June 18.	Widening channel, Detroit, Mich. Advertised, Eng. News, May 21 to June 11.		May 21
June 19.	County jail, Thomaston, Ga.		May 7
June 19.	Improvement bonds, Winnipeg, Man.		May 7
June 19.	Electric elevator, Springfield, Ill.		June 4
June 19.	Sewage filtration system, Westboro, Mass. Advertised, Engineering News, June 11.		June 11
June 19.	Fire engine houses, Youngstown, O.		June 11
June 19.	Brick and granite paving, Troy, N. Y.		June 11
June 19.	Repairing asphalt street, Baltimore, Md.		June 11
June 19.	Extending bridge pier, Boston, Mass.		June 18
June 19.	Hospital building, Morris Plains, N. J.		June 18
June 19.	School building, Canonsburg, Pa.		June 18
June 19.	Church building, Charlottesville, Va.		June 18
June 19.	Macadam paving, Boston, Mass.		June 18
June 19.	Sewer bonds, Arlington, Mass.		June 18
June 20.	Lighthouse at Plum Beach, R. I. Advertised, Engineering News, June 18.		June 18
June 20.	I-beams for lighthouse sta., Staten Isld. Advertised, Engineering News, June 18.		June 18
June 20.	Breakwater, Tompkinsville, N. Y. Advertised, Engineering News, June 18.		June 18
June 20.	Steel piling, Tompkinsville, N. Y. Advertised, Engineering News, June 18.		June 18
June 20.	Painting, Tompkinsville, N. Y. Advertised, Engineering News, June 18.		June 18
June 20.	Pipe sewers (3.3 miles), Winthrop, Mass.		June 18
June 20.	Cutting a channel, Buffalo, N. Y.		June 11
June 20.	Stone arch bridge, Ithaca, N. Y. Advertised, Engineering News, June 11.		June 11
June 20.	Macadam road, Plainfield, Conn. Advertised, Engineering News, June 11.		June 11
June 20.	Grading, etc., Avon, Conn.		June 4
June 20.	Sewer system, Warren, Pa.		May 28
June 20.	Building at state hospital, Cleveland, O.		May 28
June 20.	Building at state hospital, Toledo, O.		May 28
June 22.	Street bonds, Mansfield, O.		May 21
June 22.	Concrete arch or iron bridge, Currie, Minn.		May 21
June 22.	Water bds ($6,000), Lester Prairie, Minn.		June 4
June 22.	Steel reservoir, etc., Cambridge, Ill. Advertised, Eng. News, June 4 and 11.		June 4

June 22. Highway bridges, etc., St. Joseph, Mo. ..June 11
June 22. Macadam road, Voluntown, Conn. .....June 11
Advertised, Engineering News, June 11.
June 22. Stone sidewalk (8,000 lin.ft.), Elmira, N.Y. June 11
Advertised, Engineering News, June 11.
June 22. Brick paving (16,000 sq.yds.), Erie, Pa..June 11
Advertised, Eng. News, June 11 and 18.
June 22. Grubbing, etc., road in Yellowstone Park. June 11
June 22. School building, etc., Plainfield, N. J.....June 11
June 22. Laying water mains, New York, N. Y...June 11
June 22. Sewers, New York, N. Y.....June 11
June 23. Steam heating plant, Alexandria, Va.....June 11
June 23. Gravel roads (22 miles), Hammonton, N.J..June 11
Advertised, Eng. News, June 11 and 18.
June 22. Addition to school, Cincinnati, O.....June 4
June 22. Addition to school building, Knoxville, Pa June 18
June 22. Additions to hall, Philadelphia, Pa. .....June 18
June 22. Oak and pine lumber (360 M. ft.), Chicago. June 18
June 22. Pipe sewers, Jersey City, N. J.....June 18
June 22. Brick sewers, Toledo, O.....June 18
June 22. Earth excavation, Boston, Mass. .....June 18
June 22. Water bonds ($200,000), Camden, N. J.....June 18
June 23. Bridges (2), Kansas City, Mo. .....June 18
June 23. Sewer materials, Hyde Park, Mass.....June 18
June 23. Brick and pipe sewers, Sharpsburg, Pa...June 18
June 23. Asphalt paving, New York, N. Y.....June 18
June 23. W't-iron water pipe (11,350 ft.), N. Y...June 18
June 23. Soldier's home, Sandusky, O.....June 4
June 23. Water-works, Galva, Ia. .....May 28
June 24. Steel trestle and tank, Ft. Reno, Okla..June 4
June 24. Artesian well, Perris, Cal. .....June 11
June 24. Water meters, Vancouver, B. C.....June 11
June 24. School buildings (2), Buffalo, N. Y. ....June 11
June 24. Laying water mains, Boston, Mass. ....June 18
June 24. Bridge abutment, Buffalo, N. Y.....June 18
June 24. Concrete bulkhead, San Francisco, Cal..June 18
June 24. Iron bridge, Carthage, N. Y.....June 18
June 24. Iron lift bridge, Syracuse, N. Y.....June 18
June 24. Bridges (2) and machinery, Utica, N. Y..June 18
June 24. Elevators (2), Philadelphia, Pa. .....June 18
June 24. Sewer, water pipe, etc., Brooklyn, N. Y...June 18
June 24. Macadam road, East Haddam, Conn.....June 18
June 24. Asphalt paving, Brooklyn, N. Y.....June 18
June 24. Asphalt block paving, Baltimore, Md....June 18
June 24. Paving, etc., Cleveland, O.....June 18
June 25. School building, Joplin, Mo. .....June 18
June 25. Street lanterns (300), Washington, D. C..June 18
June 25. Iron bridges (3), Franklin, Pa.....June 18
June 25. Macadam road, Brooklyn, N. Y.....June 18
June 25. Electric light franchise, Sidney, O.....June 11
Advertised, Engineering News, June 11.
June 25. School building, Butte City, Mont.....June 4
June 25. Steel bridge (154 ft.), Woodstock, N. B..June 4
Advertised, Eng. News, June 4 to 18.
June 25. Brick paving (9,100 sq. yds.), Wellston, O. June 4
June 25. Well, tank, etc., Gaylord, Minn.....June 4
June 25. Interior work, 8 bldgs., Massillon, O.....May 28
June 25. Court house and jail, Hallock, Minn.....May 28
June 25. County court house, Rensselaer, Ind....May 21
June 26. Removing 7 wrecks, Wilmington, Del....June 4
June 26. Steel or melan arch bridges, Pittsburg, Pa. June 18
June 26. Sewers, etc., Rochester, N. Y.....June 18
June 26. Macadam road, Farmington, Conn.....June 18
June 26. County bridges (10), Urbana, Ill.....June 18
June 26. Grading road (1½ miles), Milton, Vt. ....June 18
June 26. Macadam road, Madison, N. J. .....June 18
Advertised, Engineering News, June 18.
June 27. Hospital buildings, Buffalo, N. Y.....June 18
June 27. Intercepting sewer (3 sections), Boston..June 18
Advertised, Eng. News, June 18 and 25.
June 27. Sidewalks, Evansville, Ind. .....June 18
June 27. Sewer system, Oneida, N. Y.....June 11
Advertised, Engineering News, June 11.
June 29. Brick paving, Clearfield, Pa. .....June 11
Advertised, Engineering News, June 11.
June 29. Sandstone curbing, etc., Clearfield, Pa...June 11
Advertised, Engineering News, June 11.
June 29. Brick paving, Canton, O. .....June 11
June 29. Macadamizing, Van Wert, O. .....June 11
June 29. Steel tank, for water-wks., Cincinnati, O..June 11
June 29. College library, Madison, Wis.....June 11
June 29. Cast-iron water pipe, Washington, D. C...June 11
Advertised, Engineering News, June 11.
June 29. Supplies for Springfield (Mass.) armory..June 4
June 29. Electric bridge equipment, Brooklyn, N.Y..June 18
June 29. Pipe sewers, Medford, Mass. .....June 18
Advertised, Engineering News, June 18.
June 29. Macadam road (30 miles), Spencer, Ind. ..June 18
June 29. Removing barge, New York, N. Y. .....June 18
June 29. School building, Lakewood, O. .....June 18
June 30. Iron planer, Watertown, Mass. .....June 18
June 30. Pipe sewers, Buffalo, N. Y.....June 18
June 30. Fog signal house, etc., Detroit, Mich....June 18
Advertised, Eng. News, June 18 and 25.
June 30. Railway grading, etc., But. & Pitts Ry..June 18
Advertised, Eng. News, June 18 and 25.
June 30. Macadam road, Killingly, Conn. .....June 18
Advertised, Eng. News, June 18 and 25.
June 30. Macadam road, Brooklyn, Conn. .....June 18
Advertised, Eng. News, June 18 and 25.
June 30. Water-works, Mabel, Minn. .....June 18
Advertised, Engineering News, June 18.
June 30. Crematory or swg. dispsl. plant, Ames, Ia. June 4
Advertised, Eng. News, May 21 to June 4.
June 30. Orphan's home, Peoria, Ill.....May 21
June 30. Water-works, Ames, Ia. .....June 11
Advertised, Eng. News, June 18 and 25.
July 1. Addition officers' quarters, Pittsburg, Pa..June 11
July 1. Post office building, Pawtucket, R. I...June 11
Advertised, Eng. News, June 11 and 18.
July 1. Brick paving, Waterbury, Conn. .....June 11
Advertised, Eng. News, June 11 to 25.
July 1. Pipe sewers (4 miles), Ann Arbor, Mich. June 11
Advertised, Eng. News, June 11 and 18.
July 1. Retaining wall, Cleveland, O. .....June 11
July 1. Plans for state capitol, Helena, Mont....Feb. 20
Advertised, Eng. News, Feb. 20 to Mar. 19.
July 1. Water bonds ($30,000), Oceanside, Cal...Apr. 2
July 1. Plans for library building, Burlington, Ia..May 14
July 1. Electric lighting, Washington, N. J.....June 4
July 1. Heating, ventilating, etc., Rome, N.Y...June 18
July 1. School building, Eugene, Ore. .....June 18
July 1. Storage battery, lighting, etc., Buffalo, N.Y. June 18
July 1. County courthouse, Charlotte, N. C. ....June 18
July 2. Brick paving, Sandusky, O. .....June 18
July 2. Bank building, Key West, Fla.....June 4
July 2. Hospital buildings (5), Gallipolis, O. ....June 11
July 3. Granite paving blocks, Norfolk, Va.....June 18
July 6. Supplies for Frankford arsenal, Phila....June 11
July 6. Brick sewer, Rock Island, Ill. .....June 11
July 6. Water-works, Deckertown, N. J. .....June 11
Advertised, Eng. News, June 11 to July 2.
July 6. Fire hose (1,000 ft.), Anaconda, Mont....June 4
July 6. County buildings, Santa Barbara, Cal....Feb. 27
July 6. Electric lighting, St. Mary's, Ont.....May 21
July 6. Pile bridge, Olivet, S. Dak.....May 28
July 6. Jail, Kingsman, Ariz. .....June 18
July 6. Granite curbing, Washington, D. C.....June 18
July 6. Bridge, Salt Lake City, Utah.....June 18
July 6. Addition to home, Grand Rapids, Mich...June 18
July 7. Dormitory, Darlington, Okla. Ter.....June 18
July 7. Water-works, Delphos, O. .....June 18
Advertised, Eng. News, June 18 and 25.
July 7. Electric light plant, Portland, Mich.....May 21
July 7. Supplies Sandy Hook Proving Ground...June 11
July 8. Supplies U. S. powder depot, Dover, N.J..June 11
July 8. Water-works, Pella, Ia.....June 11
Advertised, Eng. News, June 11 and 18.
July 8. Electric lighting, Ogdensburg, N. Y.....May 28
July 8. School building, Toledo, O. .....June 18
July 8. Water-works, Keosauqua, Ia. .....June 18
Advertised, Eng. News, June 18 and 25.
July 9. Barracks (2), San Francisco, Cal. .....June 18
July 9. Iron bridges (2), Westmoreland, Kan....June 11
July 10. County jail, Leesburg, Ga.....June 4
July 10. Heating apparatus, Victoria, B. C.....June 4
July 11. Steel lock gates (2), Cincinnati, O. .....June 18
July 15. Telephone franchise, Toronto, Ont. .....June 18
July 15. Plans for state capitol, Jackson, Miss.....May 7
July 15. Bridge, Little Rock, Ark. .....June 11
Advertised, Eng. News, June 11 to July 9.
July 16. Postoffice building, Pueblo, Colo. .....June 18
Advertised, Eng. News, June 18 and 25.
July 20. Electric light plant, Ocala, Fla.....May 28
July 20. Addition to court house, Fort Jones, Cal. June 11
July 23. Township house, East St. Louis, Ill.....May 28
July 25. Iron and steel bridge, Cumming, Ga.....June 18
Advertised, Engineering News, June 18.
July 31. St. ry franchise, Kingston, Jamaica, W. I. May 28
Aug. 1. Plans for city hall, Binghamton, N. Y....June 4
Aug. 1. County jail work, Minneapolis, Minn....June 18
Sep. 4. Pumping engines, St. Louis, Mo.....May 14

RAILWAYS.

East of Chicago.

BROOKVILLE.—This company was incorporated June 11, 1896, with a capital stock of $130,000, to operate a steam railway between Brookville, Jefferson county, Pa., and Polk township, in the same county. Levi Heidrick, Brookville, Pa., is interested.

BUTLER & PITTSBURG.—Bids are asked until June 30 for the grading and masonry for the roadbed between Butler and the Allegheny River, as stated in our advertising columns. R. A. Franks, Secy., Carnegie Bldg., Pittsburg, Pa. F. E. House, Ch. Engr., informs our correspondent that the line as surveyed and on which bids are being asked runs from Butler to Harmersville, on the Allegheny River, opposite Verona, and is 31 miles long; work is very heavy and includes considerable rock excavation and one tunnel 700 ft. long; the work also includes considerable masonry and six viaducts. The bridge over the Allegheny River will be 3,000 ft. long and 130 ft. above low water. The rest of the details of the bridge have not been decided upon. The lines from Harmersville to Bessemer has not been located and is not included in the call for bids. This project has been noted in our issues of April 16 and May 28.

CHICAGO, INDIANAPOLIS & CHATTANOOGA SOUTHERN.—This railway is projected from Indianapolis to Rockport, Ind., a distance of 165 miles. It is stated that a meeting of the stockholders will be held at Indianapolis, June 22, when propositions for building the line will be received. Pres., F. L. Patrick, Columbus, O.

COLUMBUS, LANCASTER & WELLSTON.—Samuel Effinger, Ch. Engr., Tarlton, O., writes us that the projected length of an extension is 20½ miles. The line is now 34 miles long, connecting the towns of Tarlton, Shakespeare, Laurelville, Adelphi, Haynes P. O., and Bloomingville, O. The extension will be built to Ash Cave, a distance of four miles, this summer. The company is doing its own work. Pres., W. H. Stevenson, Lancaster, O.

KALAMAZOO & HASTINGS.—A press report from Decatur, Mich., states that a project is in view to extend the line of the Kalamazoo & Hastings Ry. to some point on Lake Michigan. The officials of the road are now investigating the merits of a route from Kalamazoo to St. Joseph, utilizing the roadbed of the South Haven & Eastern Ry., from Paw Paw to Hartford.

NEW ENGLAND GRANITE.—The Manchester, N. H., "Mirror" states that a net work of railways is to be built at Concord, N. H., to connect the quarries of this and other companies.

OHIO CENTRAL.—The Toledo "Blade" states that a consignment of 1,000 tons of steel rails has been received by this company and will be laid at once. A number of other improvements in the roadbed will be made. Pres., Stevenson Burke, Cleveland, O.; Ch. Engr., Clifford Buxton, Toledo, O.

OCEAN CITY.—This company has been organized to build a railway from Petersburg, N. J., to Ocean City, N. J. The line will be operated by the South Jersey R. R. Co. Pres., Logan M. Bullitt; E. P. Day, Thos. H. Wilson, Robt. Fisher, R. W. Edwards, R. R. Sooy, E. B. Lake, and Howard Thorn, all of Ocean City.

TORONTO, HAMILTON & BUFFALO.—It is stated that the contract for building a spur at Hamilton, Ont., to connect with the Grand Trunk Ry. has been let to M. A. Pigott, Hamilton, Ont. The work is to be completed in four months.

STROUDSBURG & WIND GAP.—Press reports from Stroudsburg, Pa., state that a railway may be built between this place and Wind Gap, Pa. The proposed line would shorten the distance from Stroudsburg to Philadelphia by 20 miles. Charles Broadhead, Bethlehem, Pa., and John Jameson, Bloomsburg, Pa., are interested.

UNION BELT LINE.—W. H. Smith, Ch. Engr., has laid about 60 miles of tracks in the yards of Union Belt Line Ry., at Homestead, Braddock and Duquesne. The company's bridge over the Monongahela River, at Braddock, will be started within a couple of weeks by the Keystone Bridge Co. This bridge will be the connecting link between the Union Belt Line (owned by the Carnegie Steel Co.) and the Butler & Pittsburg Ry., noted in another item.

Southern.

ALBERENE SOAP STONE.—This company is making surveys with the object of extending its proposed railway further south. The route as now located extends from Alberene, Va., to North Gorden on the Southern Ry., a distance of five miles.

FLORIDA, PENINSULAR & GULF.—At a recent meeting of the directors the following officers were elected: Pres., Chas. H. Foster, Manatee, Fla.; V. Pres., Woodward Emery, Boston, Mass.; Ch. Engr., Geo. B. Morton, Baltimore, Md. This railway is projected from Plant City, via Manatee, to Boca Grande, Fla., and passes through a phosphate and agricultural region.

HIXON-RODBOURNE LUMBER.—A report from Rodbourne, Ky., states that this company has completed 15 miles of railway. The projected route is 43 miles long, of which 28 miles have been surveyed. Pres., T. J. Reynolds, Rochester, N. Y.; Ch. Engr., C. J. Thurber, Rodbourne, Ky.

LITTLE KANAWHA.—Homer Davis, of Clarksburg, W. Va., is reported as making a survey of this railway from Parkersburg to Glenville, W. Va.

MONTGOMERY, HAYNEVILLE & CAMDEN.—We are in receipt of a prospectus from Pres. Sol. D. Bloch, Montgomery, Ala., which states that the projected length of this railway is 75 miles from Montgomery to Camden, Ala. Eleven miles have already been graded. Deeds to the entire right of way with the exception of two miles have been secured. Bonds for building will be placed upon the market soon.

NORTHERN.—A press dispatch from West Liberty, Ky., states that this company is making a prospective survey over the proposed line from Radburn, Ky., to West Liberty. It is thought that work will begin as soon as the survey is made.

RUGBY ROAD & CUMBERLAND RIVER.—A press dispatch from Knoxville, Tenn., states that John Condon, Knoxville, Tenn., has secured the contract to build 27 miles of this railway, noted in our issue of June 11. Robert Walton, Rugby, Tenn., and James Balmer, Huntsville, Ala., are interested.

SOUTHERN.—This company will build several miles of additional tracks at Concord, N. C., in order to reach the Odell and other cotton mills there. The survey was completed last week.

Northwest.

GREEN BAY & WESTERN.—This company has been incorporated with a capital stock of $2,500,000. It owns the privileges of the Green Bay, Winona & St. Paul and the Stevens Point & Northern Ry. companies. Incorporators: Mark T. Cox, Morrison, Wis.; Wm. J. Hunt, Jersey City, N. J.; C. Ledyard Blair, Stephen S. Palmer and Wm. J. Wilson, New York city.

GREAT NORTHERN.—Press reports from Crookston, Minn., state that the Fosston extension has been decided upon. The line is now being surveyed, and work will begin this year, but will not be completed until next year.

LAKE DAUPHIN COLONIZATION.—It is reported that work on this railway will begin immediately, and it is expected to complete about 100 miles of grading this season. The projected route is 250 miles long, connecting the towns of Gladstone and Portage la Prairie, Manitoba, with a point on Lake Winnepegosis. D. D. Mann, Montreal, Que., has the contract for 20 miles.

OMAHA & ST. LOUIS.—This company has been incorporated with a capital stock of $2,592,000, to build a railway from Pattonsburg, Mo., to Council Bluffs, Ia., a distance of 744 miles; incorporators: W. E. Roosevelt, New York; A. E. Stillwell, J. McS. Trimble, and E. I. Myrtle, of Kansas City, Mo.

ST. LOUIS & ILLINOIS.—This company has been incorporated, capital stock $100,000, to build a railway for hauling coal from East St. Louis, via Collinsville, to O'Fallon, Ill.; incorporators: E. M. Sloan, St. Louis, Mo.; John G. Irwin, Edwardsville, Ill.; Oliver C. Look, C. A. Ambrosius, Wm. S. Combs, H. D. Merrell, E. C. Gerding, R. W. McAfee, and others, of Collinsville, Ill. The incorporation of another company to build a railway from East St. Louis to O'Fallon, was noted in our issue of June 4.

Southwest.

HOUSTON, EAST & WEST TEXAS.—This company has been granted an amended charter for changing the track from a narrow to a standard gage. This railway extends from Houston, Tex., to Logansport, La., a distance of 192 miles. Gen. Mgr., M. G. Howe, Houston, Tex.

Rocky Mountain and Pacific.

ASTORIA & COLUMBIA RIVER.—A press report from Astoria, Ore., states that the contract for 2,150 ft. of trestle and 800 ft. of grading has been awarded by the Astoria & Columbia River R. R. Co., to A. C. Georig, of Everett, Wash., and another small contract has been given to Wakefield & Jacobsen. The contract for the 47 miles of grading from the end of the present grade to Goble, had not been let up to June 5, although bids have been received. Ten miles have been graded near Astoria.

COLUMBIA & RED MOUNTAIN.—E. J. Roberts, Ch. Engr., Spokane, Wash., writes us that all surveys have been made and contracts for grading, bridging and tracklaying let to J. W. Stewart & Co., Spokane, Wash. Work is in progress and will be completed by Sept. 10, 1896. The bridge across the Columbia River, at Northport, will not be built until fall; it is expected to be completed by Feb. 15, 1897. The projected route is 16 miles long, from Northport, Wash., to Rossland, B. C., and the Trail Creek mines. Pres., D. C. Corain, Spokane, Wash.

SEVIER.—E. J. Yard, Ch. Engr., Salt Lake City, Utah, writes us that the projected length is 35 miles, from Salina, via Richfield and Elsinore, to Sevier, Utah. Eighteen miles are completed; track will be laid by Aug. 1. Pres., D. C. Dodge, Denver, Colo.

Foreign.

BEIRA.—Our local correspondent informs us that about 120 miles of this railway has been in operation for a year. Work of construction was resumed April 15, and the line will be extended to Umtali, 75 miles, to which place it will probably be completed within a year. The line extends from Fontesvilla, on the Pungue River, 45 miles from its mouth, at which place Beira is situated, almost due west to Chemoio, 120 miles; gage, 2 ft.; Geo. Pauling, Salisbury, Rhodesia, South Africa, is the general contractor. The rolling stock was all made in England, and now consists of five locomotives, passenger and freight cars, including specially constructed cars for carrying horses and cattle and protecting them from the tsetse fly, whose bite is fatal to all imported domestic animals.

STREET AND ELECTRIC RAILWAYS.

AMHERST, MASS.—The Springfield, Mass., "Republican" announces that the contract for building the Amherst and Sunderland electric railway has been awarded to M. A. Coolidge, of Fitchburgh, Mass.

BROCKTON, MASS.—The Norwell & Scituate St. Ry. Co. has been organized to build an electric road nine miles long. Capital stock, $22,500. Jonathan Hatch, Horace T. Fogg and Wm. D. Turner, of Norwell, Mass., and Henry Webb, of Scituate, Mass., are interested.

DEDHAM, MASS.—The West Roxbury & Roslindale St. Ry. Co. has been granted a franchise for its electric railway to this place.

NORTH EASTERN, MASS.—The Brockton, Mass., "Enterprise" states that the selectmen of the town have notified the Brockton Street Ry. Co. that they have granted the company a franchise to lay its tracks through that town. Mr. Rogers, Gen. Mgr., is quoted as saying that the company will commence work as soon as Brockton grants a franchise.

WORCESTER, MASS.—The Consolidated St. Ry. Co. is reported as making arrangements to build an electric railway to Shrewsbury and other nearby places. Pres., Chas. B. Pratt.

ROCKVILLE, CONN.—The Hartford, Manchester & Rockville R. R. Co. is making surveys for its electric railway to Vernon Center.

HEMPSTEAD, N. Y.—The Long Island Electric R. R. Co. has been granted a franchise for its road from Jamaica to this place, a distance of nine miles.

NIAGARA FALLS, N. Y.—The Lewiston & Youngstown Frontier Electric Ry. Co. has contracted with the Schoellkopf Power Co. to furnish it with power. There will be a copper cable six miles long from the falls to Lewiston.

OSWEGO, N. Y.—We are informed that the street railway company is building an electric line from Oswego to Fulton. Grading has been finished to Minetto. The track is laid to the cemetery, a distance of three miles. The length of the road will be 11 miles. Mr. Harris is the contractor.

SYRACUSE, N. Y.—The Syracuse St. Ry. Co. opened bids June 10 for furnishing about 20 miles of single track grooved rails; estimated cost, about $150,000.

ELIZABETH, N. J.—Bids are reported as being received by the Elizabeth St. Ry. Co. for equipping its horse car line with electricity at a cost of about $100,000.

HACKENSACK, N. J.—It is stated that the Bergen County Traction Co. has awarded contracts to the following firms for extending its electric railway: Generators and electric equipment, General Electric Co., New York, N. Y.; car bodies, St. Louis Car Co., St. Louis, Mo., and Jackson & Sharp Co.; trucks, Peckham Motor Truck & Wheel Co.; rail material, Pennsylvania Steel Co., Steelton, Pa.; overhead line construction, the White-Crosby Co.; steel roof trusses, Berlin Iron Bridge Co., East Berlin, Conn.; engines, E. P. Allis Co., Milwaukee, Wis.; boilers, the Heine Safety Boiler Co.

BALTIMORE, MD.—The Catonsville Construction Co. proposes to equip the Catonsville Short Line with electricity, distance six miles. Address, John Hubner, Equitable Bldg., Baltimore.

WASHINGTON, D. C.—The Forest Glen, Woodside & Washington Electric Ry. Co. is making surveys for its proposed electric railway.

NORWOOD, W. VA.—It is reported that the Flat Top Electric Co. proposes to build a line 26 miles long from Norwood to Roseville, W. Va. Pres., Isaac T. Mann, Bramwell, W. Va.

PARKERSBURG, W. VA.—A local company has been formed to build an electric street railway. It has secured a franchise and must begin the road in 30 days and have the road completed in six months. Geo. A. Burt, Gen. Mgr.

PINE BLUFF, N. C.—John T. Patrick, Pine Bluff, is reported as securing estimates for about 80 miles of electric railway.

JACKSONVILLE, FLA.—The Panama Park Co. has petitioned the council for permission to build an electric railway to the park. Secy., A. W. Cockrell, Jr.

BELLAIRE, O.—Press reports state that it is stated that the right of way for the new electric railway to be built between Columbus, O., this city and Wheeling, W. Va., is through Belmont county. The proposed road will connect with the Bellaire, Bridgeport & Martin's Ferry Electric Ry., at Bridgeport, O.; with the Columbus, O., electric line two miles west of Bridgeport, and all this section of the valley will be connected with Columbus, Newark, Zanesville and Springfield.

DAYTON, O.—Press reports state that the White electric and the Wayne & Fifth Street Car companies have consolidated as the People's Electric Street Car Co., and will equip its 12 miles of road with all of the latest electric appliances.

PIQUA, O.—The Miami Valley Ry. Co. has been granted a franchise for its electric railway on a number of streets of this place.

TOLEDO, O.—H. E. Riggs, Ch. Engr. and Supt. Construction of the Toledo, Bowling Green & Fremont Ry. Co., informs us that surveys for this line have been completed to Bowling Green and contracts for the grading, track laying and overhead work has been awarded to J. N. Bick, of Toledo. Track laying has been commenced. A 60-lb. rail, 60 ft. long, is being laid. The maximum grade is 8 ft. per mile. Maximum curve 3 degrees. It is expected that the line will be put in operation soon between Toledo and Perrysburg, via the Toledo & Maumee Valley Electric Ry., and thence over its own line.

WOOSTER, O.—Capt. W. Wheeler, of Creston, O.; L. P. Ohliger, of Wooster; J. W. Roof, of Cleveland, and R. M. McDowell, of Medina, O., are making arrangements for the construction of the Wooster, Medina & Cleveland Electric Ry. Surveys, it is reported, will be completed in a few weeks. Estimated cost, about $750,000.

CHICAGO, ILL.—It is reported that the Lake St. Elevated R. R. Co. will extend its western terminus one mile to the west line of Austin, giving it seven miles of double tracks. It has a bid of $230,000 for its construction. The company has $150,000 in the treasury and will borrow the $80,000 necessary to pay for the extension.

GENEVA, ILL.—The Suburban Electric Ry. Co. has been incorporated with a capital stock of $250,000 by G. I. Talbot, of De Kalb, Ill., and C. L. McMurray, of Chicago, to build a railway in Kane, Cook, Du Page and Lake counties.——The Aurora & Geneva Ry. Co. has been incorporated with a capital stock of $10,000 to build and operate street, horse, dummy and tramway railways in Kane county; for carrying mails, passengers, express and baggage, also to supply heat, electricity and light; incorporators, D. A. Belden, F. H. Thatcher and E. B. Mix.

APPLETON, WIS.—The Wisconsin Inter-Urban Electric Ry. Co. has secured a franchise for its road from Neenah to Kaukauna.

MILWAUKEE, WIS.—The Municipal St. Ry. Co. has been organized to build an electric railway. Capital stock, $500,000. G. Reuther, J. Ullrich, J. Kehrein, Anton Palm and Frank O. Immler are interested.

RACINE, WIS.—The Belle City St. Ry. Co. has been granted additional franchises for extending its electric railway, work on which will be begun at once.

ST. LOUIS, MO.—The Wellston, Creve Coeur Lake & St. Charles Ry. Co. has been incorporated with a capital stock of $2,000 by Robt. C. Schnecko, of Clayton, Mo.; J. B. C. Lucas, F. A. Thompson, T. T. Lucas, Charles P. Damon, G. R. Wise, J. H. Chambers, John H. Bobb and E. T. Thomas. The company is organized to build an electric railway from Wellston to St. Charles, with a branch touching Creve Coeur Lake.

SALINAS, CAL.—Application has been made to the council by a party said to be representing San Francisco capitalists, for a franchise for a street railway in this city.

SANTA BARBARA, CAL.—The council has been petitioned by the Santa Barbara St. Ry. Co. and the Citizens' St. Ry. Co. asking permission to change the motive power to electricity or compressed air.

SAN FRANCISCO, CAL.—The San Francisco "Examiner" announces that the Market St. Ry. Co. will extend its Mission St. system to the county line. Mr. Lynch, Supt. of Construction, expects to begin tracklaying next month, and have the new line in operation by October.

MONTREAL, QUE.—It is stated that James Ross, of the Montreal St. Ry. Co., and Wm. Mackenzie, Pres. Toronto St. Ry. Co., Toronto, Ont., have offered to purchase the franchise of the Central Tramway Co., of Birmingham, England. The road, which is now operated by horses, if purchased, will be equipped with electricity.

ELECTRIC LIGHT AND POWER.

BANGOR, ME.—It is stated that the council has decided to put new dynamos in the plant, at a cost of about $6,000.

HARTFORD, VT.—It is reported that this village has voted to put in an electric light plant.

NORTH ADAMS, MASS.—Press reports state that the North Adams Gas Co. has made arrangements with the Fitchburg Ry. Co. to furnish the electric current to light the Hoosac tunnel. To meet this extra demand the gas company will put in another boiler and substitute an engine of 400 HP. for one of 350 HP.

BOSTON, MASS.—It is proposed to construct an electric light plant on Deer Island, Boston Harbor, at a cost of about $12,000.

SPRINGFIELD, MASS.—The United Electric Light Co. has petitioned the state light commissioners for permission to issue $200,000 in bonds, $90,000 of which is to pay for extensions.

NIAGARA FALLS, N. Y.—It is stated that the Niagara Falls Power Co. will soon let the contract for building new dynamos and additional turbines. Ch. Engr., Coleman Sellers, Niagara Falls.

PAWTUCKET, R. I.—Duffy Bros., East Ave., Pawtucket, R. I., have been awarded the contract for putting in a 120-light electric plant at the water-works station. The specifications provide for a No. 4 Pelton water wheel. The other bidders were the Collyer Machine Co., Pawtucket; Pawtucket Steam & Gas Pipe Co., Pawtucket; Smith & Sawyer, Providence, R. I., and W. I. Langford, Providence.

BUFFALO, N. Y.—Bids are asked until July 1 for a storage battery outfit of 850 cells for the electrical department at police headquarters, and also for furnishing 200 lights, etc. Chas. O. Hertle, Clk. Bd.

DUNKIRK, N. Y.—The water board has voted to engage an engineer to prepare plans and specifications for an electric light plant. Supt., L. E. Thompson.

PHILLIPSBURG, PA.—A company is reported as making arrangements for the construction of a plant in this city to cost about $25,000.

PITTSBURG, PA.—Bids were opened June 17 for lighting the municipal building for four years. Two bonds of $10,000 each were required. Edward M. Bigelow, Dir. Pub. Wks.

GREENWOOD, S. C.—The council is reported as having appointed a committee to make arrangements for an electric light plant and water-works.

UNION, S. C.—This place has voted to issue $40,000 in bonds for an electric light plant and water-works, according to reports.

CROWLEY, LA.—J. F. Shelton, of Franklin, La., is reported as interested in a projected plant for this place. Application has been made to the legislature for authority to issue bonds for an electric light plant and water-works.

CRESWELL, MICH.—The council has been petitioned by a company for a 25-year electric light franchise.

SAULT STE MARIE, MICH.—The Lake Superior Power Co. is reported as making arrangements for the construction of a power canal about 250 ft. in width.

GREAT FALLS, MONT.—C. N. Atkinson, of Havre, Mont., is in this city with a view of putting in a large electric plant here. It is stated that the council has rejected all bids for lighting the streets and that the city clerk has been instructed to advertise for new bids, which will be opened at the next meeting.

SEATTLE, WASH.—It is reported that the Cedar River Power Co. is buying 10 acres of land at Denton on which to erect a plant to generate electric power from Cedar River for use in this city and nearby towns.

SNOHOMISH, WASH.—It is stated that McIntosh Bros. will put in electric plant machinery with which to operate their mines on Goat Lake as soon as the wagon road from Barlow Pass is completed.

PORTLAND, ORE.—The plant of the Union Power Co. was totally destroyed by fire on June 8. The loss is estimated at $75,000, fully insured.

SANTA ANA, CAL.—An election will be held July 14 to vote on the question of issuing $28,000 in bonds for electric lights. Edward Tedford, Cy. Clk.

SANTA CLARA, CAL.—The trustees received the following bids June 3 for putting in an electric light plant:

Bookrider Electric Co., San Francisco, Cal.	$8,750
R. Hellwig, San Jose, Cal.	8,359
California Electric Works, San Francisco	7,974
General Electric Co., San Francisco	7,859
Chas. Stallman Pacific Tool & S'ply Co., San Fr'co	8,174
Electric Improvement Co., San Jose, Cal.	7,834
Westinghouse Electric Mfg. Co., Pittsburg, Pa.	7,300
Andrew Doble Co., San Francisco, for engine only	1,944
Tracy Engineering Co., engine only	1,885
C. C. Moore & Co., engine only	1,377
A. L. Fish, engine only	1,435

ST. HELENA, CAL.—L. Grothwell has prepared articles of incorporation for a new electric light company; capital stock, $50,000; directors, J. Loechman, A. B. Ridley, L. Grothwell, G. E. Colwell and W. A. Bingham.

VALLEJO, CAL.—The trustees have been petitioned by J. Casper and also by others for a franchise for an electric light plant and a telegraph and telephone line in Vallejo.——G. G. Buckland, of San Francisco, has offered to furnish and maintain 50 1,200-c. p. arc lights, at $9.90 per light per month.

NEW COMPANIES.—Pueblo Electric Power Co., Pueblo, Colo.; $5,000; H. E. Chubbuck, Irving Hale and Albert E. Pattison.

Anniston Electric Co., Anniston, Ala.; $50,000; Howard W. Sexton, Pres. and Treas.; Dr. R. P. Huger, Vice-Pres.; John B. Rees, Secy.

West Side Lighting Co., Los Angeles, Cal.; $500,000, with $449,500 paid in; to furnish electricity for lighting and power; C. E. Peck, E. F. Billmeyer, of Los Angeles; Geo. H. Parker, Wm. R. Staats, W. S. Wright, of Pasadena, Cal.

Lebanon Light & Magnetic Water Co., of Lebanon, Mo.; $20,000; W. H. Owens, Isaac Kaskinson, J. P. Nixon.

Denning Current Motor Co., Boone, Ia.; $50,000; Pres., A. B. Steadman; Vice-Pres., L. Wahl; Secy., A. A. Millard; Treas., E. A. Turner; Supt., Wm. J. Benning; directors, A. B. Steadman, O. M. Brockett, L. M. Wahl, E. A. Turner and A. A. Millard. The company is organized to manufacture and operate the motor invented by Wm. J. Benning, which is designed to utilize the water power of streams without building a dam. It is claimed that by a system of wheels placed tandem, develop the power of the current, which can be turned into electric form or directly applied for raising water. An experimental plant was put in at Purdum, Neb., which is being used to raise water for irrigating purposes, and which is successful. It raises 250 gallons per min. 85 ft.

BRIDGES

BOSTON, MASS.—Bids are asked until June 19 for extending the centre pier of the Cottage Farm bridge. Benj. W. Wells, Supt. of Streets.

FALL RIVER, MASS.—The county commissioners received the following bids June 6 for constructing a 315-ft. bridge over the Taunton River; Wm. Sanders, Ch. Com.:

Beattie & Wilcox, Fall River (awarded contract)	$23,500
Toledo Bridge Co. Toledo, O.	27,500
Norton Iron Co., Everett, Mass.	33,241
Boston Bridge Co., Boston, Mass.	24,990
Berlin Bridge Co., East Berlin, Conn.	24,996
New Jersey Iron & Steel Co., Trenton, N. J.	28,000
C. H. Sears, Fall River	23,995

NEW HAVEN, CONN.—We are informed that the following bids were received June 11 for the iron superstructure for the bridge over the Quinnipiac River at Grand St.: Lyam H. Johnson, Chn. Com.; Cassius W. Kelley, Cy. Engr.; Herbert C. Keith, 129 Walley Ave., New Haven, Consult. Engr.:

*Berlin Bridge Co., East Berlin, Conn.	$56,451
Wrought Iron Bridge Co., Canton, O.	57,777
King Bridge Co., Cleveland, O.	59,775
Penn Bridge Co., Beaver Falls, Pa.	59,900
Youngstown Bridge Co., Youngstown, O.	60,000
Pennsylvania Steel Co., Steelton, Pa.	61,881
Massillon Bridge Co., Massillon, O.	64,600
Toledo Bridge Co., Toledo, O.	64,900
Canton Bridge Co., Canton, O.	65,000
Dean & Westbrook, New York, N. Y.	65,000
New Columbus Bridge Co., Columbus, O.	65,187
Benner & Opdyke, Philadelphia, Pa.	65,977
J. E. Buddington, New Haven	65,990
Edge Moor Bridge Co., Wilmington, Del.	66,440
F. R. Long, New York, N. Y.	69,000
New Jersey Steel & Iron Co., Trenton, N. J.	69,990
Boston Bridge Co., Boston, Mass.	71,940
Groton Bridge Co., Groton, N. Y.	72,400
R. F. Hawkins, Springfield, Mass.	79,160

*Awarded contract. There are to be four fixed spans of about 55 ft. each, and a swing span 210 ft. long. Width, 52 ft. between railings. Brick paving on roadway and asphalt on sidewalks. The bridge is to be operated by electric motors.

BUFFALO, N. Y.—Bids are asked until June 24 for reconstructing west abutment of bridge over the Clark & Skinner Canal, at Scott St. Bond, $2,000. R. G. Lay, Asst. Supt. Pub. Wks., Rochester, N. Y.; Geo. W. Aldridge, Supt., Albany.

CARTHAGE, N. Y.—Bids are asked until June 24 for constructing an iron bridge over the Black River at Carthage. Bonds, $2,900 and $9,400. Thos. Wheeler, Asst. Supt. Pub. Wks., Syracuse, N. Y.; Geo. W. Aldridge, Supt., Albany.

ITHACA, N. Y.—The Owego Bridge Co., of Owego, N. Y., is reported to have been awarded the contract at $1,725 for the iron work for the proposed bridge over Cascadilla Creek at Cayuga St.

SYRACUSE, N. Y.—Bids are asked until June 24 for constructing a lift bridge over the Erie Canal at West Genesee St. Bonds, $4,950 and $6,600. Thos. Wheeler, Asst. Supt. Pub. Wks., Syracuse; G. W. Aldridge, Supt., Albany.

UTICA, N. Y.—Bids are asked until June 24 for changing the machinery for operating lift bridges and for changing the lifting and fixed bridges, and their appurtenances, and for erecting two overhead foot bridges over the Erie Canal at Genesee St., in Utica. Geo. W. Aldridge, Supt., Albany.

BAYONNE, N. J.—The committee of the council appointed to confer with the officials of the Central R. R. of New Jersey, regarding track elevation and bridges, met June 10, and the city attorney was instructed to draw up a contract to be presented to the railway company. The specifications provide for the raising of 25th St. bridge; the erection of a bridge at 30th St.; the elevation of the tracks and changing of the grades so as to abolish grade crossings at 21st and 22d Sts., and two tunnels at or about 14th and 15th Sts. The railway company, it is understood, is to pay all the expenses of the improvement.

JERSEY CITY, N. J.—The street and water board proposes to rebuild the Pacific Ave. bridge at a cost of $12,000.

CONNELLSVILLE, PA.—It is proposed to erect an iron bridge over the Ravine at Trumps Run. Address S. F. Hood.

FRANKLIN, PA.—Bids are asked until June 25 for building iron superstructures for three bridges, according to reports. T. B. La Rue, Chn. Com.

PITTSBURG, PA.—Bids are asked until June 26 for constructing two stone, steel or Melan arch bridges in Schenley Park. One structure will be 350 ft. long, to cost $200,000, and the other will be a 105 ft. arch, to cost from $100,000 to $125,000. Edward M. Bigelow, Dir. Pub. Wks.

YORK, PA.—The county commissioners have been petitioned to build a bridge at College Ave.

BALTIMORE, MD.—The Baltimore, Middle River & Sparrows Point R. R. Co. has awarded to Benj. Glenn, of Baltimore, the contract for constructing a bridge 1,220 ft. long. The structure will have a draw 50 ft. long.

WILLIAMSPORT, MD.—It is proposed to build a bridge over the Potomac River at this place, according to reports.

ATLANTA, GA.—A. L. Kontz, Clk. Com. Roads and Revenue, writes us that the question of some new bridges and buildings is being considered by the committee.

CUMMING, GA.—Bids are asked until July 25 for building an iron and steel bridge of two 100-ft. spans over the Chattahoochee River at Stricklands, as stated in our advertising columns. H. L. Hawkins, Ordinary.

NEWPORT, KY.—It is probable that the street railway company will build another bridge over the Licking River.

CLEVELAND, O.—The joint committee of the park commissioners, the Glenville council and the Little Consolidated St. Ry. Co. has decided to direct the engineers to prepare plans for a new bridge on St. Clair St. F. C. Bangs, Secy.

SANDUSKY, O.—The county commissioners received the following bids June 4 for constructing a steel bridge over the Vermillion River at Terryville: Ohio Bridge Co., Toledo, O., $2,800; Columbus Bridge Co., Columbus, O., $2,753 and $2,853; Indiana Bridge Co., Muncie, Ind., $3,000; Champion Bridge Co., Wilmington, O., $3,050; King Bridge Co., Cleveland, O., $2,800 to $3,100; Toledo Bridge Co., Toledo, O., $3,000; H. H. Barker, $3,000. Groton Bridge & Mfg. Co., Groton, N. Y., $2,682; Canton Bridge Co., Canton, O., $3,360; Wrought Iron Bridge Co., Canton, O., $2,980 and $3,425; Massillon Bridge Co., Massillon, O., $2,600 to $2,980; Brackett Bridge Co., Cincinnati, O., $2,877; Penn Bridge Co., Beaver Falls, Pa., $2,612 to $2,950; Youngstown Bridge Co., Youngstown, O., $2,339; Bellefontaine Bridge Co., Bellefontaine, O., $2,049 to $2,191.

INDIANAPOLIS, IND.—Bids were opened June 17 for building a new iron bridge over White River on the Michigan road. Engr., M. M. De Frees; Julius Reinecke, Comr.; H. R. Smith, County Audr.——Allen Fletcher and others have petitioned the county commissioners to build a new bridge over White River south of the stock yards.

URBANA, ILL.—Bids are asked until June 26 for constructing 10 county bridges from 30 to 70-ft. span. Address Prof. Ira O. Baker, University of Illinois, Champaign, Ill.

EAU CLAIRE, WIS.—C. A. Alderman, Cy. Engr., informs us that the following bids have been received for putting in new end posts in the combination bridge over the Chippewa River, which has four spans of 195 ft. each:

John T. Tinker, Eau Claire	$1,688
Robert A. Lang, Eau Claire	3,200
Chicago Bridge & Iron Co., Chicago, Ill	2,970
Gillette-Herzog Mfg. Co., Minneapolis, Minn	3,797
Wisconsin Bridge & Iron Co., Milwaukee, Wis	2,970

YANKTON, S. DAK.—Press reports state as follows: Plans for the new bridge of the Yankton & Norfolk R. R. Co., at Yankton, contemplate five pneumatic piers, an iron frame work 1,000 ft. long, and approaches 1,500 ft. in length. The bridge is planned exclusively for railway traffic and will cost about $500,000. The substructure will be built by Alfred Noble, of Chicago, Ill., and the superstructure by the Missouri Bridge & Iron Co., Leavenworth, Kan. N. D. Miller, Engr.

PLATTSMOUTH, NEB.—It is stated that an election will be held July 7 to vote on the question of constructing a wagon bridge over the Platte River at Cedar Creek, at a cost of $8,000. The county commissioners can be addressed at Plattsmouth.

WICHITA, KAN.—The county commissioners have voted to advertise for bids for constructing a steel bridge 232 ft. long over Ninnescah River at Nickerson Ford.

KANSAS CITY, MO.—Bids are asked until June 23 for constructing an iron and a suspension bridge in Jackson county. F. J. O'Flaherty, County Surv., Kansas City, Mo.

SALT LAKE CITY, UTAH.—Bids are asked until July 6 for constructing a 48-ft. bridge over the Jordan River. C. E. Stanton, County Clk.

SANTA MONICA, CAL.—The street railway company is making arrangements for reconstructing several of its bridges.

SANTA ROSA, CAL.—The clerk has been authorized by the supervisors to advertise for bids for the construction of a bridge over Sonoma Creek on the road leading from Santa Rosa to Sonoma, according to reports.

WHITTIER, CAL.—The board of supervisors will build a bridge as soon as the right of way is secured for the road from Whittier to Los Angeles.

BUILDINGS

BOSTON, MASS.—The Boston Terminal Co. has been incorporated to build the proposed union railway station in this city. It is stated that work will be begun at once. Pres., Wm. Bliss, Preg. Boston & Albany Ry. Co.; Secy., J. W. Perkins, of the New England R. R. Co.——The public bath committee of the aldermen has recommended an appropriation of $65,000 to begin the construction of a public bath building. Wm. F. Donovan, Chn. Com.

HAVERHILL, MASS.—The grade crossing committee of the council is reported to have voted June 11 to engage an expert to prepare plans for an elevated depot here, to be submitted within a few weeks, and steps toward the abolition of the crossings will then be taken.

BUFFALO, N. Y.—Bids are asked until June 27 for erecting infirmary buildings for the Buffalo State Hospital. Archs., Isaac G. Perry, Albany and Binghamton, N. Y., and Fred W. Brown, 1326 Guaranty Bldg., Buffalo. E. S. Hawley, Treas., Austin Bldg., Buffalo.——James Brodie, of St. Paul, Minn., has prepared plans for a one-story freight house for the Northern Steamship Co. on the Blackwell Canal on Ganson St. It will be covered with corrugated iron and will cost $50,000.——F. A. Dole will build a brick malt house on Elk St. to cost $12,000.——George Cary, 184 Delaware St., has completed plans for a three-story brick addition to the University of Buffalo. The frame work will be of iron. It will cost $50,000.

JAMAICA, N. Y.—The following bids were received June 9 by John H. Brinkerhoff, Secy. Bd. Mgrs., for erecting the normal school building. Archs., I. G. Berry, Albany, N. Y., and T. J. Lauritzen, 24 East 23d St., New York:

Stephen Randell, 154 Manhattan Ave., Brooklyn	$106,269
*Benj. J. Buesman, Hancock, N. Y.	81,900
Wm. J. Moran, Brooklyn, N. Y.	115,385
F. J. Kelly & Sons, 245 Garfield Place, Brooklyn	130,042
John R. Sheehan, New Rochelle, N. Y.	105,500
N. & T. Lamb, 192 Keap St., Brooklyn	117,[illegible]
K. A. Murphy, 96 Linwood St., Brooklyn	112,000
L. E. Brown, 371 Fulton St., Brooklyn, N. Y.	102,450
Thomas Dwyer, 106 East 116th St., New York	111,300
H. W. Otis, Kingston, N. Y.	106,403
Peter Cleary, 385 Decatur St., Brooklyn, N. Y.	104,615
T. J. Carlin, 186 Remsen St., Brooklyn	113,700
Ulrich Maurer, 389 South 3d St., Brooklyn	112,059
A. J. Ransdell, 555 Quincy St., Brooklyn	112,700
A. W. Burritt Co., Bridgeport, Conn	111,081
Mapes Reeve Con. Co., 150 Nassau St., New York	94,636
William Auer, 730 Willoughby St., Brooklyn	121,330

*Also lowest bidder for steam heating and ventilating at $8,000, and for plumbing at $7,000; recommended to the state architect for acceptance.

MEDINA, N. Y.—Lansing & Beierl, 371 Pearl St., Buffalo, have prepared plans for a church to be built for St. Joseph's parish here. It will be of medina red sandstone and will cost $40,000.

NEW YORK, N. Y.—Arrangements are being made by the Harlem Young Women's Christian Association, 74 West 124th St., for the erection of a new building. Arch., Wm. W. Knowles; A. S. Nichols, Chn. Com.——Plans have been filed by William Mayer, 116 East 75d St., for an 8-story brick factory building at 22 and 24 North William St., to cost $100,000; by Joseph B. Bloomingdale, 11 East 67th St., for a 10-story brick store at 78 Fifth Ave., to cost $125,000; by John Jacob Astor, 23 West 26th St., for an 8-story brick store at 16 to 20 West 34th St., to cost $200,000; Arch., Henry J. Hardenburgh, 10 West 23d St.

ROCHESTER, N. Y.—The Paul Boynton Chute Co. has been incorporated with a capital stock of $75,000. William G. McAdor, Wall St., New York; Arthur Leutchford, George W. Archer, Max Brickner and John N. Beckley are interested. The chute will be built at Summerville.

ROME, N. Y.—Bids are asked until July 1 for the heating and ventilating apparatus and for electric lighting for the Rome State Custodial Asylum, near Rome. I. G. Perry, State Arch., Albany; J. I. Sayles, Chn., Rome.

TOMPKINSVILLE, N. Y.—Bids are asked until June 20 for furnishing the materials and constructing the Plum Beach Light House, R. I., as stated in our advertising columns. Lieut.-Col. Wm. Ludlow, U. S. Light House Engr., Tompkinsville.

TOMPKINSVILLE, N. Y.—Bids are asked until June 20 for furnishing 31 I beams at the U. S. Light House Depot, Staten Island, N. Y., as stated in our advertising columns. Lieut.-Col. William Ludlow, U. S. Light-house Engr., Tompkinsville.

MORRIS PLAINS, N. J.—Bids are asked until June 19 for erecting a new hospital building at the state hospital.

BRADDOCK, PA.—The school board has decided to issue $50,000 in bonds for erecting a school building.

CANONSBURG, PA.—Bids are asked until June 19 for erecting a 12-room school building. Arch., James N. Campbell, 814 Penn Bldg., Pittsburg; J. Riddle Weaver, Pres.

KNOXVILLE, PA.—Bids are asked until June 22 for erecting an addition to the public school building. Archs., Riddle & Keirn, 614 Lewis Bldg., Pittsburg; W. J. Hunter, Secy. Bd.

PHILADELPHIA, PA.—Bids are asked until June 22 for constructing additions and making alterations to the second floor of Independence Hall. Frank M. Riter, Dir. Dept. Pub. Safety.——Wm. A. Brown, 1831 North 11th St., has prepared plans for a new passenger station at Frankford for the Pennsylvania R. R. Co.

PHILADELPHIA, PA.—Bids are asked until June 24 for furnishing and erecting two passenger elevators for the court house and post office building in this city. Wm. Martin Aiken, Supervising Arch., Washington, D. C.——James Jackson is said to have been awarded the contract for erecting the Real Estate Trust Co.'s addition to its present building at 1334 Chestnut St.

PITTSBURG, PA.—Waite & Rowand have been awarded the contract for the erection of the new Western Pennsylvania medical college building and Emma Kaufmann clinic. The building will be an addition to the present medical college building on Brereton Ave., will be five stories high of stone and brick, and will contain libraries, laboratory and auditorium to seat 300 students. It will cost $75,000.

WASHINGTON, D. C.—The following bids were received June 9 by the light-house board for the metal work for two steel beacons, as advertised in Engineering News: Weimer Machine Works Co., Lebanon, Pa., $15,500; The Russell Wheel & Foundry Co., Detroit, Mich., $19,400; John P. McGuire, Cleveland, O., $19,950.

BALTIMORE, MD.—Maj. E. H. Ruffner, U. S. Light-house Engr., received the following bids May 28 for erecting a light station at Smith Point, Va.:

Baillie & Co., N. Y. city (awarded contract)	$42,042
Wm. H. Flaherty, New York	43,840
Arthur McMullen & Co., New York	45,000
John L. Grim, Philadelphia	46,693
Francis H. Smith, New York	47,750
Sooysmith & Co., New York	48,960
I. H. Hathaway, Philadelphia	58,950

CHARLOTTESVILLE, VA.—Bids are asked until June 19 for constructing an edifice for the Presbyterian church in this place. Arch., H. H. Huggins, Roanoke, Va.; C. E. Dickinson, Supt., Charlottesville.

CHARLOTTE, N. C.—Bids are asked until July 1 for constructing a new county court house. Bond, $25,000. Arch., Frank P. Milburn, Winston, N. C.; J. R. Erwin, Chn. Com.

ATLANTA, GA.—Grant Wilkins, of Atlanta, is reported to have been awarded the contract for constructing the new 1,000-ft. freight station at Spring St. for the Seaboard Air Line, at a cost of about $300,000.

CLEVELAND, O.—The Erie Ry. Co. is reported as making arrangements for constructing a passenger station at Willson Ave. and Track St.

LAKEWOOD, O.—Bids are asked until June 29 for constructing a 2-story brick school building in this place. J. C. Andrews, Clk. Bd. of Education, Lakewood.

TOLEDO, O.—Bids are asked until July 8 for erecting a school building at Stebbins Ave. and Newberry St. Archs., Becker & Hitchcock, Gardner Bldg.; H. W. Compton, Clk. Bd. Education.

SOUTH BEND, IND.—Shepley, Ruttan & Coolidge, 122 Ames Bldg., Boston, Mass., and 1307 Venetian Bldg., Chicago, Ill., have had their plans accepted for the new county court house in this city, to cost about $250,000.

DETROIT, MICH.—Bids are asked until June 30 for constructing a keeper's residence and fog signal house for the North Manitou light station, as stated in our advertising columns. Maj. M. B. Adams, U. S. Light-house Engr., Detroit, Mich.

GRAND RAPIDS, MICH.—Bids are asked until July 6 by the soldiers' home board for erecting an addition to the home at a cost of $10,000.

CHICAGO, ILL.—D. H. Burnham & Co., 1142 Rookery Bldg., has had their plans accepted for the proposed building for the Illinois Trust & Savings Bank. Estimated cost, about $300,000.

MINNEAPOLIS, MINN.—Bids are asked until Aug. 1 for all or part of the cells of the old county jail. C. R. Cooley, County Audr.

JOPLIN, MO.—Bids are asked until June 25 for erecting a high school building at Fourth St. and Byers Ave. Arch., A. C. Michaelis, First Nat Bank Bldg.; W. R. Fletcher, Secy. Bd. Education.

DARLINGTON, OKLA. TER.—Bids are asked until July 7 for erecting a dormitory near the Red Moon Issue Station. Capt. A. E. Woodson, Acting U. S. Indian Agent.

PUEBLO, COLO.—Bids are asked until July 16 for constructing a post office building in this city, as stated in our advertising columns. Wm. M. Aiken, Supervising Arch., Washington, D. C.

EUGENE, ORE.—Bids are asked until July 1 for constructing a school building. R. P. Job, Chn. Com., Llewellyn, Ore.

LOS ANGELES, CAL.—The "Catholic Tidings" of this city states that a new dormitory is to be erected at the Catholic University at a cost of about $60,000.

STOCKTON, CAL.—The board of supervisors has awarded the contract for the elevator at the court house to the Central Iron Works of Quincy, Ill., at $2,220.

SAN FRANCISCO, CAL.—Bids are asked until July 9 for constructing two barracks at the Presidio, to cost about $75,000. A. S. Kimball, Deputy Q. M., U. S. A.

KINGMAN, ARIZ.—Bids are asked until July 6 for erecting a jail building at this place. L. O. Cowan, Clk.

WATER-WORKS.

PETERBORO, N. H.—D. M. White, Clk., writes us that C. H. Eglee & Co., of Boston, have been awarded the contract for constructing works at a cost of $45,000; there will be eight miles of main and a reservoir; supply by gravity from mountain streams.

BOSTON, MASS.—Bids are asked until June 24 for laying about 7,500 ft. of 24 and 16-in. water pipe. John R. Murphy, Water Comr.——The contract for constructing section 8, Nashua aqueduct, consisting of a masonry aqueduct bridge 389 ft. in length, as advertised in Engineering News, has been awarded to Jones, Pollard & Co., Baltimore, Md., at $64,676. There were 17 bids, ranging from $59,897 to $100,952. The itemized bids will probably be published next week and the bridge described and illustrated in a later issue of Engineering News.

CLINTON, MASS.—Oren B. Bates, Supt., writes us that no steps have yet been taken to furnish more water to the Burditt Hill district.

MEDFORD, MASS.—The commissioners are reported about to ask for $10,000 for renewing water mains and $4,000 for purifying and enlarging the supply.

PITTSFIELD, MASS.—A. D. French, Clk., writes us that the materials for the proposed extensions have been purchased; work will be done by the board.

MERIDEN, CONN.—James Malloy & Co., of Portland, Conn., are reported to have been awarded the reservoir contract, recently advertised in Engineering News, at $62,190; nearly 20 bids were submitted.

NEW BRITAIN, CONN.—P. J. Egan, Clk., writes us that the only extensions at present will be some 10,000 ft. of various sizes for which materials were purchased early in the season.

BUFFALO, N. Y.—We are informed that the council will order a 36-in. main in Masten and East Utica Sts., to cost about $113,000.

ELMIRA, N. Y.—The board of health has directed the water company to have a filter plant in operation by July 13, on penalty of a fine of $100.

FREEPORT, N. Y.—L. J. Richardson & Son have been awarded a contract for laying water mains, at $4,264.

GILBERTSVILLE, N. Y.—The election June 13 resulted 85 to 6 in favor of constructing works. E. F. Musson, Engr., Norwich, N. Y.

LE ROY, N. Y.—At an election June 9 the citizens voted 180 to 80 in favor of constructing works estimated to cost about $40,000. Alexander Potter, Engr., New York.

LYONS FALLS, N. Y.—The residents of this place are said to be considering the advisability of constructing water-works.

KATONAH, N. Y.—The Katonah Water Co. has been incorporated with a capital stock of $10,000 by Clarence Whitman, W. H. Robertson, Albert Hoyt and others.

NEW YORK, N. Y.—Bids are asked by the department of public parks until June 23 for laying 11,350 ft. of 2-in. wrought-iron water pipe.

SILVER CREEK, N. Y.—A special election was called for June 15 to vote on the question of water-works; it is stated that three different engineers have submitted plans.

CAMDEN, N. J.—Bids are asked until June 22 for the purchase of $200,000 in 4% water bonds. Geo. G. Felton, Cy. Treas.

VAILSBURG, N. J.—A public meeting will be held June 24 to discuss a proposition to issue $30,000 in bonds for a water supply.

CANONSBURG, PA.—The People's Water Co. has been organized and proposes to lay a main from the Monongahela River to this place. Pres., H. Higinbotham, Pittsburg; Vice-Pres., Dr. D. H. Lewis, Washington, Pa.; Secy., A. R. Parkinson, Brownsville, Pa.

HELLERTOWN, PA.—R. N. Kopling, Secy. Council, writes us that an engineer will make estimates this week after which an election will be held to vote on the question of water-works.

MALVERN, PA.—Geo. R. Walton, Secy. Com., writes us that bids will be asked next month for the construction of works, to include 6,000 to 7,000 ft. of pipe, stand-pipe, etc. Horatio Sands, Engr., Pottstown, Pa.

NORTH IRWIN, PA.—The Greensburg "Democrat" states that a vote will soon be taken at this place on the question of joining Irwin in the construction of works.

READING, PA.—Emil L. Nuebling, Supt., writes us that no steps have yet been taken by the water department to introduce filtration.

TYRONE, PA.—It is reported that Thos. J. Humphreys, of Philadelphia, is at this place making surveys for a large reservoir for the Tyrone Gas & Water Co.; the dam to be built at an early date.

CRISFIELD, MD.—The town commissioners are reported to have adopted the plans of Chas. S. York, of Chestertown, and to have contracted with him for the construction of a plant to cost $12,000 to $13,000.

CHARLOTTESVILLE, VA.—The water committee has been instructed to defer the purchase of pump for reservoir until the question of constructing a second dam for new reservoir is disposed of. Dr. H. G. Nelson is interested.

GREENWOOD, S. C.—A committee has been appointed to investigate the question of water-works and electric lights.

UNION, S. C.—It is reported that $40,000 in bonds have been voted for water-works.

ST. PETERSBURG, FLA.—F. A. Davis, 1914 Cherry St., Philadelphia, Pa., writes us in regard to the franchise recently granted to the West Coast Development Co. that plans have not yet been decided upon; plant will be constructed for about 5,000 people; water obtained by pumping from artesian wells, water rising to within 10 ft of surface; cement pipe will probably be used; also meters; no designing engineer had been selected June 9.

CROWLEY, LA.—Application has been made to the legislature for authority to issue water and light bonds.

NEW IBERIA, LA.—R. S. Mahon, W. R. Burke and others are examining the water and light plants in other places with a view to the construction of works here.

FRANKLIN, KY.—The contract for constructing works, as advertised in Engineering News, has been awarded to Guild & White, of Chattanooga, Tenn. S. N. Forlinc, Cy. Clk.

BUCYRUS, O.—The Bucyrus Water Co. is reported to have abandoned the idea of constructing a reservoir, for which it recently purchased 100 acres of land, and is about to build a series of dams in the Sandusky River.

CAMBRIDGE, O.—The contracts for pumping engines and boilers has been awarded to the Laidlaw-Dunn-Gordon Co., of Cincinnati, at $5,775; contract for pumping station to Gardner & Whissel, of Cambridge, at $2,420.

DELPHOS, O.—Bids are asked until July 7 for constructing works, as described in our advertising columns. R. H. Gamble, Engr., Lima, O.; Geo. F. Almy, Secy.

NORWALK, O.—Plans for the new reservoirs and dams have been prepared by L. E. Chapin, of Canton, O., and bids will soon be asked for the construction. W. E. Sidnell, Pres. Bd.; A. F. Rolan, Secy. and Supt.

PIQUA, O.—The election to vote on an issue of bonds, as noted last week, will be held July 6. Harry E. Whitlock, Cy. Engr.

WELLSVILLE, O.—A. C. Fogo, Supt., writes us that there has been some trouble with the pumps and the newspapers have talked about a new supply from wells instead of from the river, but no steps have yet been taken toward a change.

SULLIVAN, IND.—The Howe Pump & Engine Co., of Indianapolis, have contracted to construct works to cost $40,000. The town will issue $23,000 in bonds and the company will accept a first mortgage of $17,000 on the plant when completed.

DETROIT, MICH.—The contract for constructing the water-works for the Log Cabin Land Co. has been awarded to Collins & Parker, of this city, at about $20,000.

JACKSON, MICH.—The mayor is reported to have vetoed the resolution to purchase a Bacon air lift, by which an increased supply of 2,500,000 gallons a day from the old wells was guaranteed.

JONESVILLE, MICH.—The village council is reported as sinking a test well for the water supply for the fire engine.

THREE OAKS, MICH.—F. B. Hinchman, Clk., writes us that the village has voted to borrow $10,650, but no plans have yet been decided upon; proposed supply from wells; population, 1,100.

TRENTON, MICH.—U. A. Maus, Clk., writes us that the contract for works has been let to McCoy & Keating, Detroit, Mich., for $8,900, and work has been started.

KEOSAUQUA, IA.—Bids are asked until July 8 for constructing works, as stated in our advertising columns. Chas. F. Sturtevant, Engr., St. Louis; J. P. Star, Cy. Clk.

WELLMAN, IA.—At an election last week the citizens voted to construct works to cost $5,000.

MABEL, MINN.—Bids are asked until June 30 for constructing works, as stated in our advertising columns. Fred H. Pickles, Engr., Winona, Minn.; F. W. Bacon, Village Recdr.

TRIPP, S. DAK.—It is reported that an artesian well has been sunk but refuses to flow, and a wind mill and 3,000-bbl. tank will probably be erected.

BEATRICE, NEB.—The mayor and clerk have been authorized to advertise for bids for furnishing a pure water supply to the city; present supply is from the Blue River.

NEWTON, KAN.—A test well has been sunk six miles west of the city, and it is stated that a water supply sufficient for 25,000 people has been obtained; bonds will probably be voted for mains to the city.

BUTTE, MONT.—The city clerk is reported to have been directed to advertise for bids for a water supply and the city engineer to extend the mains in two streets.

ST. LOUIS, MO.—An ordinance has passed second reading in the council providing for the advertising for bids for clarifying and purifying the water supply of the city for 25 years; also for the construction of a stand-pipe at Compton Hill reservoir.

FORT SMITH, ARK.—It is reported that the new owners of the works will make improvements in the plant. S. J. Rosamond, Supt.

ALVIN, TEX.—F. A. Smith, Cy. Secy., writes us that it is not probable that works will be constructed for some time.

WEBSTER, TEX.—Efforts are being made to organize a company to sink artesian wells.

ANAHEIM, CAL.—An election will be held Aug. 1 to vote on an issue of $18,000 in bonds for the extension of the water-works and for an electric light plant.

LIVERMORE, CAL.—It is reported that John Aylward and others propose to organize the Livermore Water & Power Co., to construct a plant to cost $50,000; supply will be from a reservoir four miles distant and having an elevation of 125 ft. above the town.——The Livermore Water & Power Co. was incorporated June 12 with a capital stock of $200,000, all paid in, by Jas. Stanley, of Mission San Jose, W. F. Boardman, J. M. Carroll and E. P. Cook, of Oakland; principal office at Oakland, Cal.

SANTA ANA, CAL.—The clerk has been directed to advertise for bids for sinking one or two 4-in. artesian wells, according to reports.

PALO ALTO, CAL.—H. W. Simkins, Town Clk., writes us that C. E. Moore, of Palo Alto, is preparing plans for works; supply from artesian wells; $40,000 in bonds recently voted will be sold June 20.

SACRAMENTO, CAL.—The Risdon Iron Works has been awarded contracts for Heine boilers for the water-works, at about $6,000.

SAN BERNARDINO, CAL.—The trustees are reported as agitating the question of constructing municipal works, to include wells, reservoirs and a pumping plant.

SAN JACINTO, CAL.—Bids were asked until June 9 for 11,000 lin. ft. of flume. Geo. Phar, Cy. Clk.

SANTA BARBARA, CAL.—The city engineer has been directed to prepare plans for a pump and pipe line to cost $5,000, for using salt water for street sprinkling purposes.

SUISUN, CAL.—An election will be held July 13 to vote on an issue of $42,000 in bonds for the construction of municipal works. G. B. Powers, Town Clk.

SALMON, IDAHO.—It is stated that an election will be held to vote on an issue of $15,000 in bonds for water-works.

WESTMINSTER, B. C.—J. J. Nickson is reported to have offered the council $3,000 a year, or 6 cts. per 1,000 gallons, for the privilege of laying a steel pipe from the city main near Sapperton along Front St. and across the north arm of the Fraser River to Lulu Island and thence to Steveston, with a branch to Richmond.

IRRIGATION.

FORT WORTH, TEX.—Press reports state that the stock of Rio Grande Irrigation & Land Co., Limited, amounting to $1,500,000, has been successfully disposed of in London, England. The English company has acquired the rights of the Rio Grande Dam & Irrigation Co., of New Mexico. The completion of the present system of canals, now actually under construction, will bring 230,000 acres of valley land under ditch, and a high level canal that can be constructed will add about 300,000 acres more. The lands to be irrigated are between Engle, N. M., and Fort Quitman, Tex. The storage lake will be located at Elephant, Butte, the capacity being over 11,000,000,000 cu. ft.

CHEYENNE, WYO.—Wm. Sturgis, of this city, is interested in a projected irrigation system in the Goshen Hole region to cost about $2,000,000.

SPOKANE, WASH.—A movement is on foot at Pine Grove, Asotin county, to construct a ditch to irrigate the farm lands in that locality. It will be between five and six miles in length.

ANAHEIM, CAL.—F. A. Stanton has finished his cement reservoir and will put in about 4,000 ft. of pipe for irrigation purposes.

BISHOP, CAL.—It is reported that there is again some talk of completing the Inyo County Irrigation Canal. Frederick Stock, Los Angeles, Cal.; Engr. H. L. Turner, of England.

OAKLAND, CAL.—The Livermore Water & Power Co. has been formed in this city to develop the Mocho water project. Its plans are to build a reservoir at an elevation of 125 ft. near Livermore. The scheme contemplates the laying of a 16-in. steel main from Wilson's; from this point to the reservoir the fall would be about 350 ft.

ORANGE, CAL.—Henry Snyder is preparing to build a reservoir on his ranch at Villa Park.

QUINCY, CAL.—It is stated that Wm. Watson is preparing plans for large restraining dams to be erected across Spanish Creek, at Devil's Elbow, by the Quincy Mining & Water Co. It is proposed to cut a waterway across the narrow neck of Devil's Elbow and dump the waste into the bed of Spanish Creek. By means of flumes it is proposed to fill up the stream bed with rock and debris for a length of 400 ft. and to a height of 108 ft.

YUMA, ARIZ.—Geo. W. Norton, Ch. Engr. Arizona Improvement Co., has completed the survey for the reservoir to be built between Laguna Mountain and the point of the mountain at Gates mining district.

NEW COMPANIES.—Home Supply Canal Co., Taylor, Neb.; $7,050; to construct and operate canals and ditches along the Calamus River; A. E. Shoemaker, S. H. Ayers, T. R. Warden, A. C. Maxon, J. E. Hartford.

La Junta & Lamar Canal Co., Denver, Colo.; $110,000; to operate in Arapahoe, Otero, Bent, Prowers and other counties; F. G. Patterson, Albert E. Reynolds, Thomas Keeley.

Alpine Land & Reservoir Co., Carson City, Nev.; Governor Reinhold Sadler, A. Livingston, George W. Keith, William M. Thornburg, George I. Lammon; $50,000.

Plum Creek Irrigating & Mfg. Co., Syracuse, Kan.; $10,000; E. H. Irvine, B. F. Shannon, W. S. Neithercutt, A. G. Ehn, J. R. Irvine.

Marysville & Nevada Power & Water Co., Nevada City, Cal.; $2,000,000; to develop the water of the Yuba River for power and irrigation purposes. J. Spaulding, R. P. Walrath, J. O'Brien, Sr., H. Maguire, L. Conrath, W. F. Englebright.

SEWERAGE.

CONCORD, N. H.—It is proposed to build a sewer in Giles St. to cost about $35,000.

ARLINGTON, MASS.—Bids are asked until June 19 for the purchase of $50,000 of 4% sewer bonds. D. B. Locke, Town Treas.

BOSTON, MASS.—Bids are asked until June 27 for constructing 7,740 ft. of 48 and 45-in. brick sewers for three sections of the Neponset Valley intercepting sewer, as stated in our advertising columns. Wm. M. Brown, Jr., Ch. Engr. Metropolitan Sewerage Comn.; Edward P. Fisk, Clk.

HYDE PARK, MASS.—Bids are asked until June 23 for furnishing sewer pipe. F. A. Wyman, Chn. Com.; R. M. Johnson, Clk.; Percy M. Blake, Engr.

LYNN, MASS.—The council has voted to issue $40,000 in bonds for sewers. Chas. H. Spear, Clk. Com.

MEDFORD, MASS.—Bids are asked until June 29 for constructing about two miles of 8 and 6-in. pipe sewers, as stated in our advertising columns. T. Howard Barnes, Cy. Engr.; Chas. H. Parker, Chn. Com.

WINTHROP, MASS.—Bids are asked until June 29 for constructing about 3 3-10 miles of pipe sewers. Engr., H. T. Whitman, 85 Devonshire St., Boston; Henry A. Root, Chn. Com., 100 Commercial St., Boston.

WORCESTER, MASS.—The committee on sewers has recommended to the council an entire separation of the sewage and the surface water of the city, in order to comply with the law which requires Worcester to purify its sewage before turning it into the Blackstone River. It is reported that the plan involves the building of a new system of sewers at an estimated cost of $892,000. Frank A. McClure, Cy. Engr.

BROOKLYN, N. Y.—Bids are asked until June 24 for constructing a sewer in Glenmore Ave., and for furnishing, hauling and laying a 6-in. cast-iron water pipe for sewerage treatment works in the 26th ward. Theo. P. Willis, Comr. Cy. Wks.

BUFFALO, N. Y.—Bids are asked until June 30 for constructing 30 to 15-in. pipe sewers in three streets. R. G. Parsons, Secy. Dept. Pub. Wks.

DELHI, N. Y.—A report has been submitted for the proposed sewer system. Geo. A. Fisher, John A. Kemp, F. L. Norton, Committee.

ROCHESTER, N. Y.—Bids are asked until June 26 for constructing sewers in three streets and cement sidewalks in Thrush St. Thos. J. Neville, Clk.

SYRACUSE, N. Y.—R. R. Stuart, Cy. Engr. informs us that Belden & Dwyer, Syracuse, have been awarded the contract for constructing a brick sewer in Jefferson and other streets, at $61,605. The itemized bids will probably be published next week.

JERSEY CITY, N. J.—Bids are asked until June 22 for constructing 650 ft. of 12-in. pipe sewers. The work will require about 400 cu. yds. of rock excavation. Geo. T. Bouton, Clk.

NEWARK, N. J.—Plans for a new system of sewers for the low-lying section of Newark were submitted to the board of street and water commissioners June 10, and it is said that the recommendations of Ernest Adam, Engr., will be adopted. The plan calls for 12,800 ft. of sewer, and the cost of the work will be about $252,000, and that of the first part of the work, that is that which can be done this year, $123,000. The work will be begun as soon as the preliminary and necessary part of adopting the plan and securing and accepting bids is done. Consult. Engrs., Alphonse Fteley and Rudolph Hering, New York, N. Y.

NEW BRUNSWICK, N. J.—Asher Atkinson, Cy. Engr., writes us that plans are being prepared for pipe sewers, to cost about $15,000, the contract to be let in July.

PATERSON, N. J.—The superintendent of streets has been directed to advertise for bids for constructing sewers in four streets.

ALLEGHENY, PA.—D. L. Fulton, Supt., writes us that contracts for sewer work were awarded June 5, as follows: John Hurley, $1,438; Wm. J. Dunn, $1,074; M. Gallagher, $1,080, and Sloan, McIlvaine & Ott Bros., $968.

SCRANTON, PA.—It is proposed to construct sewers in Columbia and Sunset Aves.

SHARPSBURG, PA.—Bids are asked until June 23 for constructing a 36-in. brick sewer in Clay St., and 24 to 10-in. pipe sewers in several other streets. E. C. Hulbert, Borough Engr., Sharpsburg.

SWARTHMORE, PA.—It is probable that the filtration beds will not be built for the system, but that the sewage will be carried to tidewater. Engr., A. Prescott Folwell, Philadelphia.

PALATKA, FLA.—It is proposed to issue bonds for sewers.

TOLEDO, O.—Bids are asked until June 22 for constructing 24-in. brick sewers in five streets. L. P. Harris, Cy. Clk.

BAY CITY, MICH.—Estimates have been submitted for a 39 × 26-in. brick sewer, 5,675 ft. long in 14th St., to cost $7,135, which have been adopted by the council. John F. Eddy, Chn. Bd. Pub. Wks.; Wm. Keith, Secy.

MILWAUKEE, WIS.—The project of flushing works for the Kinnickinnic River will be called up before the council committees on finance and judiciary this week. It is expected that the issuance of $150,000 refunding bonds will be authorized.

SAN ANTONIO, TEX.—The following bids were received June 4 for constructing a sewer system at Fort Ringgold, Tex.; G. C. Smith, Dept. Q. M. Gen., U. S. A.: John E. Mix, Rio Grande City, Tex., $5,275; James McCay, Brownsville, Tex., $4,826; John T. Smith, Austin, Tex., $4,439; Z. O. Hooker, San Antonio, Tex., $6,400.

SPOKANE, WASH.—The city commissioners have received bids from J. C. Broad and C. A. Wells for constructing sewers in Cannon's addition, at $9,194 and $8,300, respectively.

SAN JOSE, CAL.—The council has directed the city engineer to prepare plans for enlarging the Eighth St. sewer to 18 ins.

SAN LUIS OBISPO, CAL.—The board of trustees has offered for sale 120 sewer bonds of the city to the amount of $34,500, according to reports. C. F. Sammann, Cy. Clk.

SAUSALITO, CAL.—Town Engineer McCullough has prepared plans for a sewer system, which were presented at the last meeting of the trustees. Estimated cost, $16,958.

VALLEJO, CAL.—It is stated that P. McDonald is the lowest bidder for constructing sewers in four streets.

GARBAGE DISPOSAL—STREET CLEANING.

SYRACUSE, N. Y.—The board of health has accepted a proposition of L. S. McGlehan to burn the garbage of the city for a month at $40 a day, not including Sundays. It is stated that if complaint is made after a month's trial the crematory, which has just been completed at corner of Spencer and Maltbie Sts., will be removed to an outlying district.

CAMDEN, N. J.—Bids are to be opened June 19, according to reports, for cleaning the streets and collecting garbage during the ensuing year.

STREETS AND ROADS.

MILTON, VT.—Bids are asked until June 26 for grading about 1½ miles of road in Milton. Chas. S Ashley, Chn. Com.

BOSTON, MASS.—Bids are asked until June 19 for 6,000 sq. yds. of macadam and telford paving, 1,500 cu. yds. of gravel, etc., in Audubon road; and until June 22 for 13,500 cu. yds. of earth excavation in Blue Hill Ave. Benj. W. Wells, Supt. of Streets.

BROOKLYN, CONN.—Bids are asked until June 30 for a macadam road in this place, as stated in our advertising columns. F. A. Prince, Selectman, Danielson, Conn.

EAST HADDAM, CONN.—Bids are asked until June 24 for constructing a macadam road. S. S. Carter, Jr., Selectman, East Haddam.

FARMINGTON, CONN.—Bids are asked until June 26 for macadamizing 1,800 lin. ft. of Main St. R. H. Condon, Selectman.

KILLINGLY, CONN.—Bids are asked until June 30 for constructing a macadam road, as stated in our advertising columns. F. A. Prince, Selectman, Danielson, Conn.

BROOKLYN, N. Y.—Bids are asked until June 24 for repaving a number of street intersections with asphalt, and also for repairing some asphalt streets. Theo. B. Willis, Comr. Cy. Wks.; and until June 25 for constructing a macadam road on Pennsylvania Ave., from Jamaica Ave. to Belmont Ave. Timothy L. Woodruff, Comr. Dept. of Parks, Litchfield Mansion, Prospect Park, Brooklyn.——It is proposed to repave a portion of Park Ave. with granite blocks at a cost of about $113,000.

BUFFALO, N. Y.—The board of public works has been directed to advertise for bids for widening Niagara St. 20 ft., and resurfacing it from Hertel Ave. to Bird Ave.

NEW YORK, N. Y.—Bids are asked by the department of public parks, the Arsenal, Central Park, until June 23 for 6,000 sq. ft. of asphalt paving, etc.

OSWEGO, N. Y.—Over half a mile of pavement is contemplated this summer. Asphalt and brick seem to be the most popular and will be used. The city engineer has been directed to prepare plans for considerable brick paving.

POUGHKEEPSIE, N. Y.—It is proposed to pave Union St. with asphalt blocks.

TROY, N. Y.—The residents of First St. are urging the paving of that street with brick.

UTICA, N. Y.—The city clerk has been directed to advertise for bids for asphalt paving in South St.

MADISON, N. J.—Bids are asked until June 26 for macadamizing the streets of this place, as stated in our advertising columns. W. M. Ball, Borough Clk., Madison.

STOCKTON, N. J.—It is reported that the council proposes to issue bonds for macadam paving.

ALLEGHENY, PA.—D. L. Fulton, Supt. of Highways, informs us that contracts were awarded June 5 to the following for paving and street work, the amounts being the totals of the contracts: H. C. Howard, 3 contracts, $11,586; A. V. Purnell, 6 contracts, $30,088; Wm. J. Dunn, 1 contract, $1,942; Joseph Hastings, 3 contracts, $3,528; Pennsylvania Asphalt Paving Co., 9 contracts, $38,951; Sicilian Asphalt Paving Co., 11 contracts, $137,849; Booth & Flinn, Ltd., 4 contracts, $23,095; James McAfee & Co., $4,546; Harvey Sloan, 1 contract, $3,355. The other bidders were Thos. Carson, Sloan, McIlvain & Ott Bros., W. E. Hawley, Sullivan & Adams, John Hurley, Breckenridge Asphalt Co., and Bowman Bros.

SCRANTON, PA.—It has been decided to pave West Lackawanna Hill with stone blocks this year.

WILKINSBURG, PA.—The council has authorized contracts for 11 miles of paving at a cost of about $50,000.

BALTIMORE, MD.—Bids are asked until June 24 for asphalt block paving in McCulloh St., from Eutaw St. to Biddle St. Janon Fisher, City Comr.——It is proposed to pave McCulloh St., from Lanvale St. to North Ave., at a cost of $50,000.

WASHINGTON, D. C.—Bids are asked by the district commissioners until July 6 for furnishing granite curbing. It is proposed to spend $320,000 for street work this year.

NORFOLK, VA.—Bids are asked until July 3 for furnishing 3,000 tons of granite paving blocks. C. W. Kellinger, Chn. Com.

MACON, GA.—A. R. Tinsley, Treas., writes us that the city has not decided on any action regarding paving. The bonds have been authorized, but not yet issued and the material to be used has not yet been determined upon.

NEW ORLEANS, LA.—Arrangements are being made by the Napoleon Ave. Land & Improvement Co. for making the avenue a boulevard 150 ft. wide. R. B. Jones, W. C. Shepard, Albert Mackie and others are interested.

CLEVELAND, O.—Bids are asked until June 24 for grading and paving Knox St. Check, $1,000. D. E. Wright, Dir. Pub. Wks.

NILES, O.—William Wilson informs us that the property holders on Main St. have been given notice of the intention of the council to pave that street. Specifications and estimates will be ready in a few days.

SANDUSKY, O.—Bids are asked until July 2 for brick paving in Market St. Check, $1,000. A. W. Miller, Cy. Clk.——The council has voted to pave Osborn St. with brick. Paul Miller, Pres. Council.

EVANSVILLE, IND.—Bids are asked by the board of public works until June 27 for constructing artificial stone and brick sidewalks.

SPENCER, IND.—Bids are asked until June 29 for constructing about 30 miles of macadam road in Owen county at a cost of $40,000. Joseph B. Workman, County Audr.

GRAND FORKS, N. DAK.—The engineer is preparing specifications for a considerable amount of paving.

MANUFACTURING PLANTS.

BREWER, ME.—A newspaper report states that work has begun on the new factory for the Hawthorne Mfg. Co. The factory will be built wholly of brick and iron and will be entirely fireproof. Saml. Holyoke has the brick contract.

MERIDEN, CONN.—Plans have been prepared for a refrigerating machine building for the Meriden Brewing Co., to cost about $50,000; Jos. A. O'Brien, Arch., Bridgeport.

BROOKLYN, N. Y.—The Mollenhauer Sugar Refining Co. is reported to have bought the water front property on which is located the works of the People's Gas Light Co. and may build a large factory on the site.

BUFFALO, N. Y.—Lansing & Beierl, Archs., have prepared plans for a 4-story brick mill to cost $50,000 for the H.-O. Co., to be built on Perry St. It will be roofed and covered with corrugated iron. The framework will be of iron.

BUFFALO, N. Y.—Plans have been filed for a 7-story brick building to be erected at 46 to 54 Fulton St. for E. D. Ellsworth & Co. It will be used as a grain elevator and is estimated to cost $45,000.

MOUNT PLEASANT, PA.—It is stated that Hickey Bros., Greensburg, Pa., have bought a large tract of land on which to erect a brick plant, to have a daily capacity of from 15,000 to 20,000.

PHILADELPHIA, PA.—The Enterprise Mfg. Co. is reported to have completed plans for the enlargement of its works. A new steel and brick building is to be erected.

PHOENIXVILLE, PA.—A large hosiery mill is being built here. It is 180 ft. long, three stories high, and will employ 500 hands. Byrnes, Parsons & Co. are the owners.

PITTSBURG, PA.—The "Despatch" states that the Oliver Iron & Steel Co. has prepared plans for improvements to its south side mills, consisting of a Bessemer plant and new galvanizing house for heavy work. It has just put in service a new continuous mill.——It is reported that the Carnegie Steel Co. has plans ready for a new plant of 16 open hearth steel furnaces of a capacity of about 50 tons or 16,000 tons in 24 hours for the plant; it will be adjacent to the Homestead mills of the company.

SHARON, PA.—Subscriptions have been opened for the building of a new steel mill; Frank H. Buhl, C. H. Yeager, P. L. Kimberly, James S. Fruit and John Ashton are among those interested.

SHARON, PA.—A press report states that the Sharon Iron Works will build a new $500,000 steel mill, also a new wire and rod mill and 50 additional coke ovens, giving employment to 2,000 men. It will have a capacity of 150 tons a day.

SHARPSBURG, PA.—A large iron and brick planing mill will be erected by Geo. Loeffert & Son, Allegheny, Pa. It is expected to cost about $10,000. L. D. Strouss, Arch., Pittsburg, Pa.

STROUDSBURG, PA.—A press report states that E. E. Coventry and W. A. Cotter, of Newark, N. J., and Chas. W. McMurran, of New York city, have bought a large quantity of land and will commence the manufacture of brick; capital stock, $1,500,000.

BLACKSBURG, S. C.—Dr. John C. Black is president and M. M. Freeman secretary of a company just organized to build a cotton mill at this place.

GAFFNEY, S. C.—The Gaffney Cotton Mfg. Co., which already operates two cotton mills, will build a third one, and has increased its capital stock to $800,000 for that purpose.

RALEIGH, S. C.—The Seaboard Air Line will rebuild at a cost of from $200,000 to $300,000 the machine shops, car shops, etc., recently burned. It has not yet been decided whether the new plant will be located at Raleigh, Henderson, N. C., Hamlet, N. C., or Portsmouth, Va. The decision will be made within 30 days and work commenced.

ST. MATTHEWS, S. C.—The oil mill company of this place, of which F. J. Buyck is president, J. E. Wannamaker, vice-president, and S. Rich, secretary and manager, will build and equip a medium-sized cotton mill near the site of the oil mill plant at an early date.

SUMTER, S. C.—A knitting mill and cordage factory is to be built as a united plant by the Sumter Knitting & Cordage Co.

COLUMBUS, GA.—The Columbus "Enquirer" states that a woolen mill, to cost $150,000 is to be built by the Eagle & Phoenix Co. This company will also make improvements to its old plant, at a cost of about $22,500. Pres., John S. Bigeby.

BIRMINGHAM, ALA.—The Birmingham "Herald" announces that a cotton manufacturing plant is to be erected to cost about $800,000.

LOUISVILLE, KY.—A large warehouse belonging to the White Mills Distilling Co. has been burned; reported loss about $125,000.

HAMILTON, O.—A cash bonus of $40,000 is being raised to induce the Hall Safe & Lock Co., of Cincinnati, O., to remove its works to this place.

TOLEDO, O.—The Weldless Tube Co. has completed one of its large buildings, 150 × 400 ft. It will employ 300 men.

DETROIT, MICH.—Plans have been prepared by Mueller & Post, 906 Chamber of Commerce Bldg., for a malt house and bottling works, to cost about $30,000.

QUINCY, ILL.—The Dick Bros. Brewing Co. will erect a brewery; the F. W. Meuke Stone & Lime Co. has the contract.

RACINE, WIS.—E. Klinkert is reported as preparing to build an addition to the city brewery.

ALBUQUERQUE, N. M.—It is reported that contractor Taylor of the beet sugar factory has now on the ground about 200,000 brick, sufficient to build one-fourth the walls. The factory will be built inside of ten weeks.

EVERETT, WASH.—The Everett "Herald" states that Contractor Miller, who built the new sulphite mill for the Everett Paper Mill Co., last summer, is now preparing plans for a large addition to the plant.

LOS ANGELES, CAL.—The Los Angeles "Times" states that the Southern Pacific Milling Co. and the Salinas Valley Lumber Co. have secured grounds and will at once erect large warehouses, a planing mill and put in a lumber yard.

ST. CATHARINE, ONT.—The Acetylene Gas Co., Niagara Falls, N. Y., has made arrangements to build a branch establishment here.

MINING.

BUTTE, MONT.—The "Mining World" of June 6 contains the following items: The Homestake Mining Co., of Black Hills will soon enlarge its milling plant, and will increase it to an 800-stamp mill. The company is now preparing to deepen the shaft to the 2,000 ft. level.——Manager Chas. Clark has decided to put in a modern hoisting engine at the Original mine.——The Pauper's Dream Mining Co. has recently made a satisfactory test with the Aising pulverizer. It is an apparatus consisting of an iron cylinder partly filled with iron balls, the cylinder revolving. Manager Schweitzer is securing estimates on erecting two of these machines, which he expects to have erected on the porphyry dyke within 60 days. The Helena & Livingston Co., at Corbin, will put in the same system and is now getting plans for an extensive plant costing $300,000.

DAVENPORT, WASH.—The Queen Ann Mining Co. has just been incorporated by A. L. Tinsley, A. C. Shaw, W. J. Olwell, J. McRae and B. W. Myers; capital stock, $700,000. The property is located about 6 miles south of the British line, on the Colville reservation, and it is stated that the development will be commenced at once.

SPOKANE, WASH.—The Spokane "Review" states that the manager of the Monte Cristo Co. has been instructed to purchase a 7-drill compressor and boiler. The cost of the plant will be about $10,000.——At a recent meeting of the Grand Price Mining & Milling Co., Col. W. W. D. Turner was elected president and W. Fullerton, of Rossland, B. C., manager. Active developments will be immediately commenced.

TACOMA, WASH.—W. R. Rust, Mgr. Tacoma Smelting & Refining Co., has returned from New York, where he claims to have arranged for $250,000 to be spent in making the Tacoma smelters one of the largest in the country; two stacks, six roasters and a refinery costing over $100,000 will be built. The enlargements will be commenced in the fall and be completed by next spring. A large amount of ore is now being received from Alaska, as well as from Mexico and South America. The smelter has run six years without stopping.

PLACERVILLE, CAL.—The Placerville "Nugget" announces that a shaft 600 ft. deep will be sunk in the Richmond property soon, and $50,000 will be spent in machinery and accoutrements. Mr. Hamilton is the representative of the international gold syndicate, which is developing the property. Thirty stamps are to be added to the Grand Victory property.

SAN DIEGO, CAL.—The San Diego "Sun" states that President Diaz, of Mexico, has granted the concession of the Coronado Islands to H. Lindsey, of Philadelphia, for the purpose of quarrying for stone for building purposes. Operations will commence about the middle of July, and about 250 men will be employed. The headquarters of the company will be in San Diego.

ROUND MOUNTAIN, CAL.—Bass & Joiner are talking of erecting a stamp mill soon, near their mining property.

DAYTON, NEV.—The "Times" states that John Landers, Jos. Mallon and Joe Fisher will erect a new quartz mill in Silver City to work custom ore from the old Mount Hope property. It will be a roller crushing mill and will be run by a 15-HP. gasoline engine. It will be able to reduce 20 tons of ore per day.

SALMON, IDAHO.—The Pratt Creek mining property owned by McKillip Bros. has been sold to a Salt Lake syndicate represented by Mr. Crimson, for $50,000. It is stated that the terms of the sale require a mill and all necessary machinery to be put in.

MISCELLANEOUS CONTRACTS.

WHARF.—Martinez, Cal.—Alexander Raymond and G. W. McNear have each been granted a wharf franchise.

STREET LANTERNS.—Washington, D. C.—Bids are asked by the district commissioners until June 25 for furnishing 300 street lanterns.

EARTH FILLING.—Cambridge, Mass.—Bids are asked for 35,000 cu. yds. of earth filling for the park department. Geo. R. Cook, Gen. Supt. of Parks.

LUMBER.—Chicago, Ill.—Bids are asked until June 22 for furnishing 80,000 ft. oak and 280,000 ft. pine lumber, various dimensions. W. D. Kent, Comr. Pub. Wks.

TELEPHONE FRANCHISE.—Toronto, Ont.—Bids are asked until July 15 for the purchase of a telephone franchise for five years or longer. R. J. Fleming, Chn. Bd.

CAUSEWAY.—Camden, N. J.—Bids will be opened on July 6 at the court house in Camden for building a causeway over Newton Creek. J. J. Albertson, Magnolia, N. J., Engr.

IRON PLANER.—Watertown, Mass.—Bids are asked until June 30 for furnishing one iron planer, 12 × 40 × 25 ft., for Watertown arsenal. Maj. J. W. Reilly, Commanding.

WRECK REMOVAL.—New York, N. Y.—Bids are asked until June 29 for removing a coal barge lying in the middle of Gedney Channel. Col. C. L. Gillespie, U. S. Engr., Army Bldg., New York.

ROCK CRUSHER.—Taunton, Mass.—A committee has been appointed to inquire into the advisability of purchasing a portable rock crusher to cost about $1,700. Address the superintendent of streets.

SHEET PILING.—Tompkinsville, N. Y.—Bids are asked until June 20 for sheet piling the south face of the South Wharf, as stated in our advertising columns. Lieut.-Col. Wm. Ludlow, U. S. Light House Engr.

ELECTRIC BRIDGE EQUIPMENT.—Brooklyn, N. Y.—Bids are asked until June 29 for equipping the bridge across Gowanus Canal at Ninth St. with electric motive power. Theo. B. Willis, Comr. City Wks.

LOCK GATES.—Cincinnati, O.—Bids are asked until July 11 for building two steel lock gates, each weighing 110 tons, and for 42 tons of track rails for the gates. Maj. W. H. Heuer, U. S. Engr., Custom House, Cincinnati.

TELEPHONE CONDUITS.—Philadelphia, Pa.—The Standard Telephone Co., 1015 Filbert St., has petitioned for permission to construct conduits and manholes and for the erection of terminal poles for its system in this city.

PAINTING.—Tompkinsville, N. Y.—Bids are asked until June 20 for painting portions of the wharves at the U. S. Light House Depot, S. I., as stated in our advertising columns. Lieut.-Col. Wm. Ludlow, U. S. Light House Engr.

BREAKWATER.—Tompkinsville, N. Y.—Bids are asked until June 20 for building a temporary breakwater in the entrance to the U. S. Light House Depot Basin, S. I., as stated in our advertising columns. Lieut.-Col. Wm. Ludlow, U. S. Engrs.

WHARF.—Seattle, Wash.—It is stated that Ainsworth & Dunn, wholesale fish dealers, have been granted a permit for the erection of a wharf and warehouse at the foot of Pike St., to cost $8,000. The wharf will be 103 × 215 ft., and the warehouse will be 80 × 200 ft.

CONCRETE BULKHEAD, ETC.—San Francisco, Cal.—Bids are asked until June 24 for constructing a concrete bulkhead and for bituminous yard work at the North Cosmopolitan Grammar School. Chas. I. Havens, Arch., Flood Bldg.; Geo. Beanston, Secy. Bd. Education.

SUBWAYS.—Buffalo, N. Y.—It is stated that Geo. E. Mann, Engr. Grade Crossings Commission, is preparing plans for subways for the Erie R. R., in Clinton, and William Sts. The plans will be finished in about one month. Then bids will be asked for the work. The total cost is estimated at $170,000.

PORT WORKS.—Vera Cruz, Mex.—It is stated that Pearson & Sons, contractors for the drainage of the valley of Mexico, and for the Vera Cruz port works, have leased the Tehauntepec railway for 50 years. They will build port works at the Pacific and Gulf of Mexico ends. The government will pay them $1,200,000 annually during three years, and after that will share net profits.

COAL PIER.—Philadelphia, Pa.—Contracts have been let by the Reading R. R. Co. for the construction of a large additional coal pier at Port Reading. It will be 700 ft. long and 50 ft. wide, and will be separated from the present wharf by a dock 200 ft. wide. The new pier will be equipped with three tracks, two of which will be used to run the loaded cars upon, while the third will return the empty cars by gravity. The dock will be dredged to a [illegible] depth of 16 ft. at low water. The contract for the reconstruction of the pier has been awarded to Joseph H. Cofrode & Son, while the work of dredging the dock will be done by J. Sanford Ross, of Jersey City, N. J.

CONTRACT PRICES.

CAST-IRON PIPE.—Webster, Mass.—A contract for 2,200 ft. of 8-in. water pipe has been awarded to the Donaldson Iron Co., Emaus, Pa., at $21.41 per ton of 2,240 lbs. f. o. b. at Webster.

SEWERS.—Boston, Mass.—The following bids were received by the metropolitan sewerage commission June 13 for sections 21 and 22, Neponset Valley intercepting sewer, as advertised in Engineering News; only total bids for Section 21 are given in table:

Bids for Section 22, Metropolitan Sewerage System, Boston, Mass.

Bidder.	Excav. & refill, 2,400 lin. ft.	Rock excav., 4,850 cu. yds.	Brick mas., Am., 464 cu. yds.	Brick mas., Port., 296 cu. yds.	Con. mas., Am., 300 cu. yds.	Con. mas., Port., 120 cu. yds.	Spruce lumber in pl., 10 M. ft.	Total.	Total, Sec. 21.
Geo. S. Good & Co., Lock Haven, Pa.	$11.00	$6.00	$13.00	$15.00	$6.00	$7.00	$30.00	$67,822	$76,342
Geo. R. Newman & Co., Providence, R. I.	7.25	4.50	15.00	17.00	5.25	7.00	30.00	52,702	47,196
T. H. Bryne & Co., Malden, Mass.	4.00	5.00	14.00	16.00	4.75	6.00	35.00	46,417	43,730
H. P. Nawn, Boston, Mass.	3.15	4.80	12.50	14.00	5.00	7.00	30.00	42,414	39,700
Edward W. Everson, Providence, R. I.	5.00	4.00	12.00	13.00	5.00	6.00	28.00	42,386	45,580
S. W. Frescoln, Reading, Pa.	4.90	3.70	12.40	14.40	5.90	6.90	40.00	41,671	.....
J. P. O'Connell, Dorchester, Mass.	3.25	4.00	13.00	15.00	5.50	7.00	25.00	39,322	42,882
Craib & Trumbull, Winthrop, Mass.	2.40	4.00	13.00	15.00	6.00	7.00	30.00	37,482	.....
Ezra A. Mathers, Washington, D. C.	2.25	3.75	10.35	11.50	5.75	6.75	30.00	33,801	34,712

ASPHALT PAVING REPAIRS.—Omaha, Neb.—We are informed that the board of public works opened bids June 11 for repairs on asphalt paving in 32 paving districts, or about half of the total number in the city. The remainder are included in the Barber contract, which still has three years to run. Each contractor bid low on pavement laid by himself, and high on work done by the Standard Co., which has gone out of business. Bids were asked for both 5 and 10-year contracts, and on three different specifications: A, for keeping streets in repair, figured at so much per sq. yd. for the entire area of the street, which is the present plan in vogue, and the price now paid is 8 cts.; B, provides for payment by the sq. yd. for pavement actually laid or repaired, and the third, C, is for so much per cu. yd. of asphalt used. The sentiment of the board appears to be in favor of the second plan. The bids were as follows: Barber Asphalt Co., 5 years, specification A, ranged from 5 to 9 cts.; 20 cts. on Standard pavements;

specification B, from $1.05 to $1.15; specification C, $16.80 to $18.20; 10-year contract, A, 6 to 9 cts.; B, $1; C, $16. Hugh Murphy, 5 years, A, 10 cts. on all except Sherman Ave., and 5 cts on that; B, $1.50 on all except Sherman Ave., and $1 on that; C, $27; no bid on 10 years. John Grant, 5 years, A, no bid; B, 98 cts. to $1.25; C, $18; no bid on 10 years.

ASPHALTINA PAVING.—Syracuse, N. Y.—Bids were opened June 8 for about 30,000 sq. yds. of paving in Mulberry St. and the contract awarded to W. J. Gillett, of Syracuse, for asphaltina sheet pavement. R. R. Stuart, Cy. Engr., informs us that the bids were as follows:

Quantities.		W. J. Gillett, P.O. Box 93, $30,819.	Whitmore, Rauber & Vicinus, $66,992.	W.G. Sprague, Syracuse, $60,913.
Excavation	10,000 cu. yds.	$0.35	$0.50	$0.40
Asphaltina	30,700 sq. yds.	1.32	1.84	1.35
Scoria block paving	120 " "	5.50	6.25	6.00
Stone curbing	15,800 lin. ft.	.60	.05	.60
Prot. curb or headers	970 " "	.50	.05	1.45
3-in. brick drain tile	15,800 " "	.05	.02	.04
10-in. sewer pipe	1,200 " "	.40	.50	.50
Brick mas. catchbasins	60	65.00	50.00	60.00

The bids for paving the street with asphalt (29,800 sq. yds.) were as follows; only price for pavement and total bids being given:

Whitmore, Rauber & Vicinus[1]	Trinidad.	$1.77	$66,940
Empire Construction Co.	Alcatraz.	1.49	66,763
W. Judson Smith	Trinidad.	1.35	68 013
Bermudez Paving Co.	Bermudez.	1.60	71,760

[1]Rochester; all others Syracuse.

For paving with the New York Brick & Paving Co.'s brick, the bids were: J. E. Miles & Co., Easton, Pa., $1.76, total for 30,700 sq. yds., $74,788; Empire Construction Co., $1.50, $65,508; G. D. Grannis, $1.58, $68,356, or for Hallwood blocks from Zanesville, O., $1.79, $74,803.

STORM SEWERS.—Cedar Rapids, Ia.—C. P. Boynton, Cy. Engr., has sent us the following statement of the bids received June 11 for storm sewers; Fetter & Crosby bid on cash basis; contracts awarded as indicated:

Bids Received at Cedar Rapids, Ia., June 11, for Constructing Storm Sewers.

Bidder.	1st and 2d Aves., about 3,400 lin. ft.					Central Park, about 1,390 lin. ft., Sec. 2.							Vinton ditch, about 400 lin. ft. and River Wall, Sec. 1.						
	30-in. pipe, per ft.	18-in. pipe, per ft.	Brick, in spcls., per M.	River wall.	Total.	Main, Sec. B, per ft.	18-in. pipe, per ft.	Brick, in spcls., per M.	Ex. excav't'n, per cu. yd.	Riprap, pr. cu. yd.	Lumber in outfall, per M. ft.	Total.	Main trunk, per ft.	18-in. con., per ft.	Brick, in spcls., per M.	Earth fill, pr. cu. yd.	Riprap, pr. cu. yd.	Masonry, rvr. wall, pr. cu. yd.	Total.
Fetter & Crosby, La Crosse, Wis.	....	....	....	....	....	$7.15	$0.65	$15.00	$0.20	$2.25	20.00	$10,406	$15.35	$0.65	$15.00	$0.20	$2.25	$4.00	$9,002
Murray Bros., Cedar Rapids, Ia.	$3.25	$0.90	$19.50	$15.00	$10,069	7.90	.75	18.00	.18	3.25	20.00	*11,533	18.50	.75	18.50	.25	3.25	3.60	9,938
Adams & Gates, Peoria, Ill.	2.60	.85	20.00	70.00	8,446	11.00	.85	20.00	.50	2.50	22.00	15,896	24.00	.85	20.00	.30	2.50	3.50	12,465
M. S. Jackson & Co., Cedar Rapids, Ia.	2.35	.80	18.00	85.00	*7,677	10.10	.80	16.60	.35	2.00	18.00	14,553	18.28	.80	16.60	.35	2.00	6.00	10,780
Ford & De La Hunt, Cedar Rapids, Ia.	....	....	....	....	....	8.25	.60	21.00	.125	1.35	18.00	11,930	18.00	.60	21.00	.20	1.35	5.00	*9,495

LAYING WATER PIPES.—Boston, Mass.—The following bids were received by the metropolitan water board June 4 for laying cast-iron water pipes, as advertised in Engineering News:

Contract No. 30:		D. F. O'Connell, $31,251.	*C.H. Eglee Co., $27,718.	R.A. Malone & Co., $34,128.	Ezra A. Mathers, $27,808.
48-in. cast-iron pipe,	11,500 lin. ft.	$2.14	$1.92	$2.35	$1.93
36-in. cast-iron pipe,	1,500 " "	1.75	1.38	1.90	1.65
16-in. for blow-offs,	120 " "	.75	1.00	1.00	1.10
12-in. for blow-offs	110 " "	.70	.75	.80	.65
Rock excv., abv. grade	1,000 cu. yds.	3.49	3.00	3.50	2.60
Below grade	10 " "	7.00	3.50	6.00	2.90
Earth excv. bel. grade	50 " "	.80	.50	1.00	.65
Setting air valves	3	3.00	3.00	5.00	5.40
Chamber, 36-in. valves	1	30.00	45.00	70.00	42.00
For blow-offs, etc.	7	30.00	36.00	50.00	35.00

*Awarded contract.

Bids Received by Metropolitan Water Board, Boston, Mass., for Laying Water Pipe, Contract No. 29.

Bidder.	24-in. cast-iron pipe, 4,400 lin. ft.	20-in. cast-iron pipe, 9,700 lin. ft.	6-in. for blow-offs, 100 lin. ft.	Rock excavation, abv. grade, 200 cu. yds.	Rock excavation, below grade, 10 cu. yds.	Earth excavation below grade, 1000 cu. yds.	Setting air valves, 6, each.	Chambers for 24-in. & 20-in. valves, 4.	Chmbrs for blow-offs, gate or air valves, 12.	Total.
*J. H. McKnight, Pittsburg, Pa.	$0.83	$0.73	$0.30	$1.70	$3.00	$0.50	$5.00	$60.00	$35.00	$11,873
D. F. O'Connell, Boston, Mass.	.86	.79	.30	3.52	7.00	.75	3.00	25.00	25.00	12,744
C. H. Eglee Co., Boston, Mass.	.98	.82	.30	3.00	3.50	.50	2.00	35.00	25.00	13,433
R. A. Malone & Co., Boston, Mass.	1.30	1.15	.50	5.00	10.00	1.00	5.00	50.00	40.00	18,835
Ezra A. Mathers, Washington, D. C.	1.47	1.33	.23	2.60	2.90	.60	5.40	38.50	34.00	20,595

* Awarded contract.

STEEL OR CAST-IRON CONDUIT.—Brooklyn, N. Y.—I. M. De Varona, Engr. of Water Supply, informs us that the following bids were received June 11 for constructing section 2, additional pipe conduit, as advertised in Engineering News; about 74,500 lin. ft.:

Bidder.	Plan A. (66-in. steel pipe) Sabin asphalt coating.	Plan A. (66-in. steel pipe) coating.	Plan B. 2 48-in. c.-i. pipes.	Plan C. 1 48-in. c.-i. pipe.
John McNamee	$801,979	$779,629	.....	$701,087
Buchner & Blagen[1]	812,951	786,876	.....	.....
Charles Hart	849,080	823,005	$1,315,275	701,575
Michael Dady	914,910	892,560	1,361,000	793,775
I.P. Cranford & Son	930,822	893,572	1,292,260	677,260
John O'Rourke	1,019,494	1,019,494	1,409,130	806,080
Daniel J. Cream	.....	.....	1,419,990	736,605
T.A.& R.G.Gillespie[2]	1,070,985	996,485	1,661,620	936,020
T. Nevins & Son[3]	1,108,465	1,033,965	1,606,464	838,914
Edward Freel	1,448,004	1,410,754	1,469,566	827,600

[1]Portland, Ore.; [2]Pittsburg, Pa.; [3]Orange, N. J.; all others Brooklyn.

PAVING.—Baltimore, Md.—The contract for repaving Eutaw Place has been awarded to Jones, Pollard & Co., of Baltimore, at $1.75 a sq. yd. for 3,800 sq. yds. of limestone asphalt blocks, 4 × 4½ × 12 ins.; 50 cts. for 2,000 sq. yds. repairing with old blocks, and 10 cts. for resetting 6-in. curb where needed. For paving Broadway, from Preston to North Ave., with sheet asphalt on 4 ins. cement concrete base, including grading and removal of old cobblestone pavement, etc., Isaac S. Filbert bid $1.93 for Trinidad Lake and $1.65 for vulcanite asphalt; Barber Asphalt Paving Co., $2.00 for Trinidad Lake. For 2,400 sq. yds. of granite block paving in Mount Royal Ave., the Maryland Pavement Co. bid $2.60 a sq. yd., total $6,447, and Isaac S. Filbert, $2.19, total $5,642. The bids for 14,000 sq. yds. of granite block paving in Alice Anna St., including gutter stones, grading and removal of old stone pavement, etc., were as follows; contract not yet awarded:

Bids Received at Baltimore, Md., for Paving with Granite Blocks.

Bidder.	Granite blocks, 14,000 sq. yds.	Setting 6-in. curb, 4,400 lin. ft.	Old 6-in. curb redrsd. 1,000 lin. ft.	Cobble-stone repvg., 15,000 sq. ft.	Curb reset in crs. sts., 600 lin. ft.	Hauling stone taken up, 14,000 sq. yds.	Hauling curb taken up, 750 lin ft.
Ambrecht & Middendorf, Richmond, Va.	$1.975	$0.08	$0.15	$0.04	$0.12	$0.10	$0.05
Westham Granite Co., Baltimore, Md. (Belgian blocks).	2.24	.10	.15	.025	.10	.10	.05
Westham Granite Co., Baltimore, Md. (mosaic blocks).	1.745	.10	.15	.025	.10	.10	.06
W. E. Anderson, Baltimore, Md.	2.125	.10	.17	.03	.08	.07	.05
Isaac S. Filbert, Baltimore, Md.	1.93	.15	.21	.045	.21	.12	.04
J. & M. Reddington, Baltimore, Md.	2.23	.25	.30	.03	.08	.10	.06

BRICK PAVING.—Scottdale, Pa.—C. J. Rutherford, Secy., writes us that 18 inquiries were received in regard to the 6,850 sq. yds. of brick paving advertised in Engineering News, and the contract was awarded June 10 to Daniel Bennett & Co., at 35 cts. for excavation, 40 cts. for curbing, 96 cts. for brick paving, and 40 cts. for crossing stone; total bids were:

Daniel Bennett & Co., Greensburg, Pa.	$9,591
Bowman Bros., McKeesport, Pa.	10,181
James Campbell, Scottdale, Pa.	10,190
Ulrick, Nissley & Williams, Springfield, O.	10,581
J. C. Spaeth & Co., Pittsburg, Pa.	10,606
Husband & Co., Mount Pleasant, Pa.	11,234
W. N. Porter, Scottdale, Pa.	11,441

DREDGING.—Philadelphia, Pa.—The Philadelphia Public Works Co., 211 South 9th St., has been awarded the two contracts for dredging the Schuylkill River, for which bids were opened June 9, as follows: For dredging, removing and depositing over banks all material except rock from channel of Schuylkill River, measured in dump after settlement, 40½ cts. a cu. yd., and all rock at $12.50, measured upon deck of scows; total, $40,000, and for contract No. 4, same prices, total, $50,000. The American Dredging Co., 236 Walnut St., bid 55 cts., $17.50, and 57 cts., $17.75 for the two contracts; Frank C. Somers, 211½ Market St., Camden, N. J., 49¾ cts., $15.60 for both.

CENTRIFUGAL PUMPS.—Jacksonville, Fla.—R. N. Ellis, Supt., writes us that the contract for centrifugal pumps, as advertised in Engineering News, has been awarded to the Morris Machine Works, the bids being as follows; (1) for two 6-in. pumps with electric motors to drive same; (2) for one 8-in. pump with steam engine to drive same:

	1.	2.
American Well Co., Aurora, Ill.	$1,960.00	$565.00
Southward Fdry & Mach. Co., Phila.	.....	1,004.00
General Electric Co., New York	2,127.00	.....
Rumsey & Co., Seneca Falls, N. Y.	2,032.00	1,028.00
Morris Mach. Wrks, Baldwinsville, N.Y.	2,259.40	511 86

BRICK PAVING.—Gloversville, N. Y.—F. H. Wilmarth, Cy. Clk., writes us that the contract for 6,720 sq. yds. of brick paving, for which bids were received June 8, as advertised in Engineering News, has been awarded to the Callanan Road Improvement Co., Albany, at $2.25 a sq. yd. for paving East Fulton St., with concrete foundation, and $1.70 for Fremont St., with sand foundation; Park Paving Co., Pittsburg, bid $2.32 and $1.85; S. C. Ferguson, Gloversville, $2.30 and $1.75. Chas. Fiske, Jr., Cy. Engr.

BRIDGE.—Syracuse, N. Y.—The contract for constructing a steel bridge with stone abutments over Onondaga Creek has been awarded to the Wrought Iron Bridge Co.; bids were opened June 8, being as follows; R. R. Stuart, Cy. Engr.:

Quantities.	Hughes Bros., Syracuse.	W't Iron Bridge Co.	Groton Br. & Mfg. Co.
Bailing and draining	$400.00	$300.00	$300 00
Earth excavation, 500 cu. yds.	.50	.60	.20
Masonry " 300 " "	.75	1.00	.75
Embankment 400 " "	.30	.50	.25
Surfacing 50 " "	.50	.70	1.25
Stone masonry 350 " "	7.50	7.00	8.00
Arch stones* 18 " "	15.00	15.00	15.00
Concrete 56 " "	5.50	6.00	6.00
Loose stn. protectn 5 " "	1.00	2.50	1.00
Pine timber 1 M. ft.	30.00	40.00	20.00
Cement sidewalk 120 sq. ft.	.20	.18	.16
Iron railing 48 lin. ft.	1.00	1.00	1.50
Steel girder bridge	3,950.00	3,235.00	3,884.00
Total	$8,272.00	$7,540.00	$8,182.00

*Bridge seats and copings.

PAVING.—Boston, Mass.—The rapid transit commission received two bids June 12, the lowest being that of McElenney Bros., at $1,756, which firm has done all the paving for the commission thus far. Its bid June 12 was as follows: 3,000 sq. yds. granite block paving (including crosswalks) on gravel foundation—1,300 sq. yds., 6 p. m. to 6 a. m., 30 cts.; 1,200 sq. yds., 6 a. m. to 6 p. m., 20 cts.; 500 sq. yds., Sunday, day or night, 20 cts; 1,040 sq. yds. granite block, pitch and pebble paving on concrete foundation—300 sq. yds., 6 p. m. to 6 a. m., 90 cts.; 640 sq. yds., 6 a. m. to 6 p. m., 90 cts.; 100 sq. yds., Sunday, day or night, 90 cts.; 100 sq. yds. brick sidewalk, on gravel foundation—10 sq yds., 6 p. m. to 6 a. m., 25 cts.; 80 sq. yds., 6 a. m. to 6 p. m., 18 cts.; 10 sq. yds., Sunday, day or night, 25 cts.; 200 lin. ft., edgestones, on gravel foundation—20 lin. ft., 6 p. m. to 6 a. m., 12 cts.; 160 lin. ft., 6 a. m. to 6 p. m., 10 cts.; 20 lin. ft., Sunday, day or night, 12 cts.

DREDGING.—Boston, Mass.—Frank W. Hodgdon, Ch. Engr. Harbor Comrs., writes us that the following bids were received June 10 for dredging about 127,000 cu. yds., as advertised in Engineering News:

Augustus B. Martin, 50 High St., Boston	$50,500
Eastern Dredging Co., 25 Congress St., Boston	49,925
New England Dredging Co., 12 P.O.Square, Boston	48,280

BRICK PAVING.—Des Moines, Ia.—Contracts for brick paving have been awarded to the Likes Improvement Co., at $1.329 a sq. yd.; O. P. Herrick, at $1.39; J. W. Campbell, $1.41 and $1.44; J. L. Black, $1.239.

BRICK PAVING.—Erie, Pa.—The contract for paving 11,438 sq. yds. in Holland St. has been awarded to V. D. Eichenlaub, Erie, at $1.72 a sq. yd. for Park No. 1 wire-cut brick; manhole, $35; catchbasins, $30; 9-in. pipe, 35 cts.; 6-in., 25 cts.; 15-in. sewer, $1.50; 12-in., $1.35; land mark or flush spill protected, $5; inspection, 100 days, at $2.50; total, $20,093. George Platt, Cy. Engr.

SEWERS.—Rutland, Vt.—The following bids were received June 12 for constructing the Moore Brook sewer, as advertised in Engineering News; character of soil, sand, clay and silt; city furnishes pipe, specials, ironwork, and cloth; the contractor furnishes other material and labor; subdrains 4 to 6 ins. diameter, surrounded with screened gravel covered with jute bagging, are laid under sewer; Sidney Smith, Cy. Engr.:

Quantities.		S. W. Prescott, Reading, Pa.	P. F. Brennan, New York.	J. Walker, Newmarket, N. H., $14,921.	F. L. Allen, Worcester, Mass., $16,024.	*J. Dorman, $25,182.
Trench for:						
22×33-in. b'k	2,200 lin. ft.	$0.78	$1.00	$0.75	$0.85	$1.20
18-in. pipe	3,500 " "	.63	.50	.55	.85	1.45
15-in. pipe	350 " "	.51	.50	.45	.50	1.00
8-in. pipe	60 " "	1.60	1.00	1.25	1.50	.95
12-in. pipe	12 " "	1.27	1.00	.95	1.00	1.00
Brick, Am. cem.	100 cu. yds.	11.00	13.00	11.50	13.00	15.75
Portl'd cement.	200 " "	13.00	14.00	13.25	15.50	17.75
Concrete, Am.	300 " "	5.50	5.00	6.50	5.00	7.00
Portland	300 " "	7.00	7.00	8.50	7.00	9.00
Rubble, Am.	20 " "	6.00	5.00	7.00	5.00	6.25
Lay'g 18-in. pipe	1,800 lin. ft.	.21	.15	.25	.25	.27
With gasket	1,700 " "	.21	.20	.28	.25	.37
Lay'g 15-in. pipe	300 " "	.21	.15	.20	.20	.27
With gasket	50 " "	.21	.20	.23	.20	.35
Laying 8-in. pipe	60 " "	.20	.10	.20	.10	.15
12-in. pipe	12 " "	...	.15	.20	.15	.25
Sub-drains	6,400 " "	.175	.25	.20	.25	.48
Excavation	300 cu. yds.	1.00	.45	.70	.50	1.00
Embankment	400 " "	.50	.50	.40	.25	1.00

*J. Dorman and D. J. O'Mahoney, Lawrence, Mass.

PAVING.—Newark, N. J.—Ernest Adam, Engr. Street and Sewer Department, writes us that the following contracts have been awarded; bids opened June 4; all local contractors; James Conway, 491 Central Ave., 9,700 sq. yds. oblong granite, sand foundation, at $1.85; 2,600 sq. ft. Belgian bridging at 40 cts.; total, $19,110; 7,600 sq. yds. oblong granite, sand foundation, $1.85; total, $14,060. Thomas A. O'Connor, 263 North 7th St., 3,800 sq. yds. oblong granite, $1.82; total, $6,916. Barber Asphalt Co., Prudential Building, 3,500 sq. yds. asphalt, $2.57; total, $8,995; 9,000 sq. yds., $2.55; total, $22,950. Newark Paving Co., 133 1st St., 22,670 sq. yds. asphalt, $2.59; 16-in. curb, 52 cts.; 3,500 sq. yds. Catskill repressed brick, $2.19; 1,060 sq. yds., $2.03. All of the asphalt paving consists of 6 ins. hydraulic cement concrete foundation, 1½-in. binder course, mixed with asphalt, and 2-in. asphalt covering, excavation included. Brick paving, 6-in. concrete foundation, 1½-in. sand cushion, and joints filled with paving pitch No. 4, containing 20% asphalt; all the prices quoted for paving include excavation. All curb is blue stone curb.

STEEL BRIDGES.—Fort Madison, Ia.—John Walljasper, County Audr., writes us that the contract for constructing all steel bridges required during the year has been awarded to D. B. Prescott; bids were received June 2, and were as follows. James B. Diver, Keokuk, Ia.—$8 pans, under 60 ft., $8.25 per ft.; under 80 ft., $10; under 120 ft., $13; cylinder piers, 24 ins. diameter, 16 ft., 2 sets, $318; 30 ins. diameter, $398; 36 ins. diameter, $439; 42 ins. diameter, $500. D. B. Prescott, Keokuk, Ia.—$8, $9.80, $12, $315, $410, $435, $500, respectively.

BRICK PAVING.—Cedar Rapids, Ia.—E. P. Boynton, Cy. Engr., informs us that the Likes Improvement Co., of Des Moines, has been awarded the contracts for paving in District No. 6, for which bids were opened June 11; reported as 128,000 sq. yds. brick, 26,000 cu. yds. earth work, 20,000 lin. ft. curbing, etc.; contract prices as follows: 5 × 22-in. curbing, 48, 56 and 36 cts. per lin. ft., respectively, for limestone, Berea and cement; 5 × 20-in., 44, 54 and 34 cts.; excavation, 13½ and 20 cts. per cu. yd.; paving with Des Moines brick, on 6 ins. concrete foundation, $1.397 and $1.405 per sq. yd.; on 4 ins. concrete, $1.254 to $1.27; on 6 ins. macadam, $1.159 and $1.615; add for Murphy grout filler, 22 cts. per sq. yd.; for paving pitch, 13 cts.; resetting curb, 13 cts. Tschirgi, Steuck & O'Farrell bid on Des Moines brick; Berry & Welsh on Galesburg, Des Moines and Diamond brick from Kansas City; J. J. Yost, on Ottumwa brick; J. D. McGorrisk and W. O. Johnson & Son, on Galesburg and Des Moines brick; each of the above bidding on one or more of the four sections of the work; A. H. Connor & Co. and J. E. Murray & Co., submitted each one bid for the entire work; the first at $1.42, $1.38 and $1.245 for Des Moines brick, the other at $1.75, $1.65 and $1.53 for same brick with the different foundations.

SEWER AND IRON CASTINGS.—Erie, Pa.—The contract for constructing a sewer in Cherry St., from 4th to 3d, has been awarded to David Jones, at 90 cts. a ft. for straight and curved 12-in. pipe, $1 on branch pipe, 40 cts. on 9-in. pipe, 35 cts. on 6-in. connections, and $35 each on catchbasins and manholes. The South Erie Iron Works was awarded the contract for iron castings wanted by the city at $1.68 per 100 lbs.

INDUSTRIAL NOTES.

THE SHIFFLER BRIDGE CO., Pittsburg, Pa., has established an office at 45 Broadway, New York city. B. H. Parsons is in charge.

THE MIDDLETOWN CAR WORKS, Middletown, Pa., has completed an order of 150 box cars for the Philadelphia, Wilmington & Baltimore Ry.

THE MICHIGAN BRASS & IRON WORKS, of Detroit, Mich., has opened an eastern office at 47 Pearl St., Boston, Mass., and has appointed Mr. H. H. Kinsey agent.

THE INDIANAPOLIS FOUNDRY CO., Indianapolis, Ind., has the contract to furnish the Wabash School Furniture Co., Wabash, Ind., with 300 tons of small iron castings.

THE PITTSBURG GENERAL ELECTRIC CO., Limited, Pittsburg, Pa., consulting and contracting engineers, has opened an office at 531 Wood St. Pres. and Mgr., W. A. Cadugan; Secy and Treas., W. A. May.

THE W. K. HENDERSON CAR WORKS, Jefferson, Tex., will be removed to Shreveport, La.; an agreement with the citizens providing for buildings to cover 15,000 ft. of floor space and to cost about $20,000.

THE NEWTON MACHINE TOOL WORKS, 24th and Vine Sts., Philadelphia, Pa., reports a large order from the Russian Locomotive Works, Nijni Novgorod, Russia, included in which are many heavy milling machines, cold saw cutting-off machines and boring machines.

THE TOLEDO CONSTRUCTION CO., Toledo, O., has removed its office to 305, 307 and 309 Spitzer Bank Building. The company reports large contracts with the Pittsburg, Marion & Chicago Ry., and the Mobile & Western Alabama R. R.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has a contract for furnishing steel trusses for the new building which is to be erected by the Holyoke Gas Co., Holyoke, Mass. The building is 50 ft. wide and 60 ft. long. Roof trusses are entirely of steel, and the covering is slate. No woodwork or inflammable material will be used anywhere in the construction.

THE Q. & C. CO., Chicago, Ill., has received its award for the exhibit of metal sawing machinery and tie plates at the Atlanta exposition. This award consists of a finely designed gold medal. The special features claimed for the metal sawing machines offered by this company are that they are low in price, effective in service and economical in action, each machine is provided with positive automatic feed.

THE A. P. SMITH MFG. CO., of Newark, N. J., cut a 6-in. piece from an 8-in. main, with its tapping machine in the Lynn water system, during the convention of the New England Water-Works Association, in 11 minutes, which was witnessed by about 40 members of the association. The company has recently established an eastern agency in Boston, Mass., in charge of Mr. W. H. Van Winckle, with headquarters at the Adams House.

THE RENSSELAER MFG. CO., of Troy, N. Y., exhibited at the convention of the New England Water-Works Association, photographs showing several sizes of its large valves, also others showing the Corry fire hydrant which this company is now putting upon the market. A feature of the company's exhibit was an aluminum hydrant of small pattern which attracted general attention. Mr. Fred. S. Bates had charge of the exhibit.

THE H. M. R. CONSTRUCTION CO., Unity Bldg., Chicago, Richard Mohn, C. E., Secy. and Treas., advises us that it has over $150,000 worth of work under contract, as follows: Library Hall for the University of Illinois, Urbana, Ill., $131,000; a 150-ft. steel smoke stack with 9-ft. base for the power house at Garfield Park, Chicago; ironwork for the new receptory in Humboldt park and the ironwork for the Pecard school building, at Hoyne Ave. and Wellington St., all in Chicago.

THE ASHCROFT MFG. CO., Consolidated Safety Valve Co., and the Hayden & Derby Mfg. Co., all of New York, N. Y., were new exhibitors at the New England Water-Works Association Convention. Among the special features of their exhibits were the Edson recording gage, Tabor steam engine indicator with a Houtling reducing motion, and the Metropolitan injector. We are in receipt of photographs showing their exhibit. The above firms were represented by Mr. Thos. W. Clarke and Mr. J. A. Mitsch, of the Boston office.

DARLING, BROWN & SHARP, Providence, R. I., have recently placed upon the market a number of new tools, including a 6-in. rule depth gage and an improved universal level. The head of the gage is a solid piece of steel, hardened, ½-in. thick and 2 ins. long, of such form that it can be conveniently held while taking measurements. It is milled to receive the rule or blade, which slides in a slot in back of head. The front of the head is beveled back to the width of the rule, thus greatly facilitating the reading of the graduations. The clamping device is made in such a manner that by tightening the screw on front of head the rule or blade is clamped upon both edges and held centrally and firmly in place. The blade is a 6-in. narrow tempered steel rule, about 7-32-in. wide and about 1-20-in. thick, can be easily and quickly detatched from the head and used as an ordinary scale. The top of the case of the bevel is solid for 1½ ins. back from the square end, and forms a rest immediately underneath the blade, for use when it is desired to accurately fit templets, etc. The case is about ¼-in. thick and ⅝-in. wide. The off-set in the blade increase the capacity of the bevel to such an extent that it may be set at any angle, however slight.

THE NORWOOD ENGINEERING CO., of Florence, Mass., has purchased the good will and business of the Holyoke Hydrant & Iron Works and has consolidated its business with that of its own, in new shops which have recently been completed and equipped with the most modern machinery. The company is said to have ample capital and is ready to give all orders prompt attention. The reorganized company has elected the following officers: Pres., H. P. Otis; Vice-Pres., C. E. Torrance; Treas. and Mgr., W. A. Stevenson. One of the specialties of the Norwood company is the Wilson filter, which was recently exhibited at the annual meeting of the New England Water-Works Association. The filter is especially adapted for public buildings and manufacturing plants. Mr. J. A. Longstreet has charge of matters relating to the filter, and Mr. Henry F. Quint has been appointed general agent for the company, with headquarters in the Equitable building, Boston, Mass.

WATER-WORKS SUPPLIES.—The following firms exhibited supplies at the fifteenth annual convention of the New England Water-Works Association, held at Lynn, Mass., June 10, 11 and 12. Meters: Union Water Meter Co., Worcester, Mass, John P. Otis, Mgr., George H. Carr; Thomson Meter Co., Brooklyn, N. Y., E. L. Abbott, E. T. Ivins, S. D. Higley; Neptune Meter Co., New York, N. Y., W. B. Meiden; Pittsburg Meter Co., Pittsburg, Pa., A. G. Holmes; Henry R. Worthington, New York, 70 Kilby St., Boston, J. M. Betton, Geo. B. Ferguson, W. G. Ruggles; National Meter Co., New York, N. Y.; Hersey Mfg. Co., Boston, Mass., Albert S. Glover, Secy., A. A. Blossom, Samuel Harrison. Tapping and Pipe Cutting Machines: Anthony P. Smith Mfg. Co., Newark, N. J., W. H. Van Winkle, Benjamin C. Smith, New York, N. Y., Fred. A. Smith; Walworth Mfg. Co., Boston, Mass., James H. Eustis; H. Mueller Mfg. Co., Decatur, Ill., W. N. Dill. Gates, Valves and Fire Hydrants: Michigan Brass & Iron Works, Detroit, Mich, H. P. Kinsey; Norwood Engineering Co., Florence, Mass., W. W. Wilson, Henry F. Quint; Chapman Valve Mfg. Co., Boston, Mass., H. R. Dalton, Jr.; Rensselaer Mfg. Co., Troy, N. Y., F. S. Bates. Recording Gages, Relief and Safety Valves, etc: Ashton Valve Co., Boston, Mass., C. W. Houghton, H. O. Hinkson, F. J. Dibble, Peabody, Mass.; Crosby Steam Gage & Valve Co., Boston, Mass., Samuel G. Reed; Ashcroft Mfg. Co., New York, N. Y., Thos. W. Clarke, J. A. Mitsch. Water Pipe: Walworth Mfg. Co., Boston, Mass; James H. Eustis; Lead Lined Iron Pipe Co., Wakefield, Mass., T. E. Dwyer, R. D. Wood & Co., Philadelphia, Pa., Jesse Garrett, Geo. P. Prince. Pumping Machinery: Henry R. Worthington, New York, N. Y., J. M. Betten, Geo. B. Ferguson, W. G. Ruggles; Deane Steam Pump Co., Holyoke, Mass., C. P. Deane, F. H. Hayes, Mgr., A. M. Prince; Mason Regulator Co., Boston, Mass., W. T. Johnson; Snow Steam Pump Works, Buffalo, N. Y., J. Holloway. Packings and Gaskets: Garlock Packing Co., Boston, Mass.; Taunton Locomotive Mfg. Co., Taunton, Mass. Well Points, etc.: Hydraulic Construction Co., New York, N. Y., W. H. D. Washington, Pres. General Supplies: Walworth Mfg. Co., Boston, Mass., James H. Eustis; H. Mueller Mfg. Co., Decatur, Ill., W. N. Dill. Water Filters: Norwood Engineering Co., Florence, Mass., J. A. Longstreet, Henry F. Quint.

TO RAILROAD CONTRACTORS.

Bids on the grading and masonry for the road-bed of the Butler & Pittsburg Railroad, between Butler and the Allegheny River, will be received at the office of the Railroad Company, Room No. 1314, Carnegie Building, Pittsburg, Pa., until 12 o'clock noon, Tuesday, June 30th, 1896. Specifications and information can be had at the office of the Chief Engineer of the Railroad Company. Address all communications to

R. A. FRANKS, Secretary.

By order of the Board. 25-2t

ASPHALT BLOCK OR BRICK PAVING.

BOARD OF PUBLIC WORKS,
CITY OF WATERBURY, CONN, 1896.

Sealed proposals for paving North Main Street, from the north line of East Main Street to the south line of Abbott Avenue, with vitrified brick or asphalt blocks will be received at the office of the Board of Public Works of the City of Waterbury, Connecticut, City Hall, until 4 o'clock p. m. on the 1st day of July, A. D., 1896, at which hour the bids will be publicly opened and read.

Bidders are required to state in their proposals their names and places of residence.

Each proposal shall be signed by the bidder and accompanied by a certified check for $500 as a guarantee that the bidder will execute the contract within the time specified in this notice, in case the bid be accepted

The person or persons to whom the contract may be awarded will be required to attend at this office with the surety offered by him or them and execute the contract within ten (10) days from the date of the award, and in case of failure or neglect so to do he or they will be considered to have abandoned it and as in default to the City of Waterbury. The surety on the contract bond must be some surety company authorized by law to act as bondsman in the State of Connecticut.

Bidders must state in their proposals the kind of brick or asphalt block which they propose to use, and must deposit ten (10) samples of the same in the office of the City Engineer on or before the 24th day of June, 1896.

The right to decline any or all the proposals is reserved if deemed for the interests of the city.

The Engineer's estimate of the principal item of work is as follows, viz:

1,700 square yards of paving, including two (2) granite crosswalks.

These quantities are to be considered as only approximate. The Board expressly reserves the right of increasing or diminishing the same, as may be deemed necessary by the Engineer.

The proposals must be made upon blanks furnished by the Board, and all proposals will be considered as informal which are not in all respects in conformity with this notice.

R. A. CAIRNS, C. E.,
City Engineer.

24-3t

TREASURY DEPARTMENT, OFFICE SUPERVISING ARCHITECT, Washington, D. C., June 12, 1896.—Sealed proposals will be received at this office until 2 o'clock p. m. on the 16th day of July, 1896, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except heating apparatus, plumbing, elevator car, &c.) of the U. S. Post Office Building at Pueblo, Colo., in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Superintendent at Pueblo, Colo. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Erection and Completion (except Heating Apparatus, Plumbing, Elevator Car, &c.) of the U. S. Post Office Building at Pueblo, Colo.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 25-2t

OFFICE OF THE LIGHT HOUSE ENGINEER, Third District, Tompkinsville, N. Y., June 11th, 1896.—TO PAINTERS AND CONTRACTORS. Proposals will be received at this office until 12 o'clock noon of Saturday, the 20th day of June, 1896, for furnishing the materials and labor of all kinds necessary for painting portions of the wharves at the United States Light House Depot, Staten Island, N. Y. Forms of proposal, specifications and other information may be obtained on application to this office. The right is reserved to reject any or all bids and to waive any defects. WILLIAM LUDLOW, Lieut. Col., Corps of Engineers, U. S. A. Light House Engineer. 25-1t

OFFICE OF THE LIGHT HOUSE ENGINEER, Third District, Tompkinsville, N. Y., June 11th, 1896.—TO WHARF BUILDERS AND CONTRACTORS Proposals will be received at this office until 12 o'clock noon of Saturday, the 20th day of June, 1896, for furnishing the materials and labor of all kinds necessary for building a temporary breakwater in the entrance to the United States Light House Depot Basin, Staten Island, N. Y. Plans, specifications, forms of proposal and other information may be obtained on application to this office. The right is reserved to reject any or all bids and to waive any defects. WILLIAM LUDLOW, Lieut. Col., Corps of Engineers, U. S. A. Light House Engineer. 25-1t

OFFICE OF THE LIGHT HOUSE ENGINEER, Third District, Tompkinsville, N. Y., June 11, 1896.—TO WHARF BUILDERS AND CONTRACTORS. Proposals will be received at this office until 12 o'clock noon, of Saturday, the 20th day of June, 1896, for furnishing the material and labor of all kinds for sheet piling the south face of the South Wharf at the United States General Light House Depot, Tompkinsville, N. Y., according to the plans and specifications therefor, which, together with other information, may be obtained on application to this office. The right is reserved to reject any or all bids and to waive any defects. WILLIAM LUDLOW, Lieut. Col, Corps of Engineers, U. S. A., Light House Engineer. 25-1t

OFFICE OF THE LIGHT HOUSE ENGINEER, Third District, Tompkinsville, N. Y., June 11, 1896.—TO IRON MANUFACTURERS Proposals will be received at this office until 12 o'clock noon of Saturday, the 20th of day June, 1896, for furnishing thirty-one I beams at the United States Light House Depot, Staten Island, N. Y. Specifications, forms of proposal and other information may be obtained on application to this office. The right is reserved to reject any or all bids and to waive any defects. WILLIAM LUDLOW, Lieut Col., Corps of Engineers, U. S. A., Light House Engineer. 25-1t

TREASURY DEPARTMENT, OFFICE SUPERVISING ARCHITECT, Washington, D. C., June 8, 1896.—Sealed proposals will be received at this office until 2 o'clock p. m. on the 1st day of July, 1896, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except heating apparatus) of the U. S Post Office building at Pawtucket, R. I., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Pawtucket, R. I. Each bid must be accompanied by a certified check for a sum not less than 2 per cent. of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Erection and Completion (except Heating Apparatus) of the U. S. Post Office building at Pawtucket, R. I.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 24-2t

OFFICE OF THE LIGHT HOUSE ENGINEER Ninth District, Detroit, Mich., June 15, 1896.—Sealed proposals will be received at this office until 3 o'clock p. m., of Tuesday, June 30, 1896, for the construction and erection of a double keeper's dwelling and fog-signal house for North Manitou light station, Mich. Plans, specifications and other information may be obtained on application to this office. The right is reserved to reject any or all bids and to waive any defects. M. B. ADAMS, Major of Engineers, U. S. A., Light House Engineer. 25-2t

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